

INSTITUTO TECNOLOGICO DE CHIHUAHUA

i= 0.5%

INGENIERIA ECONOMICA

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0050	0.9950	1.0000	1.00000	0.9950	1.00500	0.0000	0.0000
2	1.0100	0.9901	2.0050	0.49875	1.9851	0.50375	0.9901	0.4988
3	1.0151	0.9851	3.0150	0.33167	2.9702	0.33667	2.9604	0.9967
4	1.0202	0.9802	4.0301	0.24813	3.9505	0.25313	5.9011	1.4938
5	1.0253	0.9754	5.0503	0.19801	4.9259	0.20301	9.8026	1.9900
6	1.0304	0.9705	6.0755	0.16460	5.8964	0.16960	14.6552	2.4855
7	1.0355	0.9657	7.1059	0.14073	6.8621	0.14573	20.4493	2.9801
8	1.0407	0.9609	8.1414	0.12283	7.8230	0.12783	27.1755	3.4738
9	1.0459	0.9561	9.1821	0.10891	8.7791	0.11391	34.8244	3.9668
10	1.0511	0.9513	10.2280	0.09777	9.7304	0.10277	43.3865	4.4589
11	1.0564	0.9466	11.2792	0.08866	10.6770	0.09366	52.8526	4.9501
12	1.0617	0.9419	12.3356	0.08107	11.6189	0.08607	63.2136	5.4406
13	1.0670	0.9372	13.3972	0.07464	12.5562	0.07964	74.4602	5.9302
14	1.0723	0.9326	14.4642	0.06914	13.4887	0.07414	86.5835	6.4190
15	1.0777	0.9279	15.5365	0.06436	14.4166	0.06936	99.5743	6.9069
16	1.0831	0.9233	16.6142	0.06019	15.3399	0.06519	113.4238	7.3940
17	1.0885	0.9187	17.6973	0.05651	16.2586	0.06151	128.1231	7.8803
18	1.0939	0.9141	18.7858	0.05323	17.1728	0.05823	143.6634	8.3658
19	1.0994	0.9096	19.8797	0.05030	18.0824	0.05530	160.0360	8.8504
20	1.1049	0.9051	20.9791	0.04767	18.9874	0.05267	177.2322	9.3342
21	1.1104	0.9006	22.0840	0.04528	19.8880	0.05028	195.2434	9.8172
22	1.1160	0.8961	23.1944	0.04311	20.7841	0.04811	214.0611	10.2993
23	1.1216	0.8916	24.3104	0.04113	21.6757	0.04613	233.6768	10.7806
24	1.1272	0.8872	25.4320	0.03932	22.5629	0.04432	254.0820	11.2611
25	1.1328	0.8828	26.5591	0.03765	23.4456	0.04265	275.2686	11.7407
26	1.1385	0.8784	27.6919	0.03611	24.3240	0.04111	297.2281	12.2195
27	1.1442	0.8740	28.8304	0.03469	25.1980	0.03969	319.9523	12.6975
28	1.1499	0.8697	29.9745	0.03336	26.0677	0.03836	343.4332	13.1747
29	1.1556	0.8653	31.1244	0.03213	26.9330	0.03713	367.6625	13.6510
30	1.1614	0.8610	32.2800	0.03098	27.7941	0.03598	392.6324	14.1265
31	1.1672	0.8567	33.4414	0.02990	28.6508	0.03490	418.3348	14.6012
32	1.1730	0.8525	34.6086	0.02889	29.5033	0.03389	444.7618	15.0750
33	1.1789	0.8482	35.7817	0.02795	30.3515	0.03295	471.9055	15.5480
34	1.1848	0.8440	36.9606	0.02706	31.1955	0.03206	499.7583	16.0202
35	1.1907	0.8398	38.1454	0.02622	32.0354	0.03122	528.3123	16.4915
36	1.1967	0.8356	39.3361	0.02542	32.8710	0.03042	557.5598	16.9621
37	1.2027	0.8315	40.5328	0.02467	33.7025	0.02967	587.4934	17.4317
38	1.2087	0.8274	41.7354	0.02396	34.5299	0.02896	618.1054	17.9006
39	1.2147	0.8232	42.9441	0.02329	35.3531	0.02829	649.3883	18.3686
40	1.2208	0.8191	44.1588	0.02265	36.1722	0.02765	681.3347	18.8359
41	1.2269	0.8151	45.3796	0.02204	36.9873	0.02704	713.9372	19.3022
42	1.2330	0.8110	46.6065	0.02146	37.7983	0.02646	747.1886	19.7678
44	1.2454	0.8030	49.0788	0.02038	39.4082	0.02538	815.6087	20.6964
45	1.2516	0.7990	50.3242	0.01987	40.2072	0.02487	850.7631	21.1595
46	1.2579	0.7950	51.5758	0.01939	41.0022	0.02439	886.5376	21.6217
47	1.2642	0.7910	52.8337	0.01893	41.7932	0.02393	922.9252	22.0831
48	1.2705	0.7871	54.0978	0.01849	42.5803	0.02349	959.9188	22.5437
50	1.2832	0.7793	56.6452	0.01765	44.1428	0.02265	1035.6966	23.4624
55	1.3156	0.7601	63.1258	0.01584	47.9814	0.02084	1235.2686	25.7447
60	1.3489	0.7414	69.7700	0.01433	51.7256	0.01933	1448.6458	28.0064
65	1.3829	0.7231	76.5821	0.01306	55.3775	0.01806	1675.0272	30.2475
70	1.4178	0.7053	83.5661	0.01197	58.9394	0.01697	1913.6427	32.4680
72	1.4320	0.6983	86.4089	0.01157	60.3395	0.01657	2012.3478	33.3504
75	1.4536	0.6879	90.7265	0.01102	62.4136	0.01602	2163.7525	34.6679
80	1.4903	0.6710	98.0677	0.01020	65.8023	0.01520	2424.6455	36.8474
84	1.5204	0.6577	104.0739	0.00961	68.4530	0.01461	2640.6641	38.5763
85	1.5280	0.6545	105.5943	0.00947	69.1075	0.01447	2695.6389	39.0065
96	1.6141	0.6195	122.8285	0.00814	76.0952	0.01314	3324.1846	43.6845
100	1.6467	0.6073	129.3337	0.00773	78.5426	0.01273	3562.7934	45.3613

i= 0.75%		INGENIERIA ECONOMICA				ING. JAVIER VILLARREAL POSADA		
n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0075	0.9926	1.0000	1.00000	0.9926	1.00750	0.0000	0.0000
2	1.0151	0.9852	2.0075	0.49813	1.9777	0.50563	0.9852	0.4981
3	1.0227	0.9778	3.0226	0.33085	2.9556	0.33835	2.9408	0.9950
4	1.0303	0.9706	4.0452	0.24721	3.9261	0.25471	5.8525	1.4907
5	1.0381	0.9633	5.0756	0.19702	4.8894	0.20452	9.7058	1.9851
6	1.0459	0.9562	6.1136	0.16357	5.8456	0.17107	14.4866	2.4782
7	1.0537	0.9490	7.1595	0.13967	6.7946	0.14717	20.1808	2.9701
8	1.0616	0.9420	8.2132	0.12176	7.7366	0.12926	26.7747	3.4608
9	1.0696	0.9350	9.2748	0.10782	8.6716	0.11532	34.2544	3.9502
10	1.0776	0.9280	10.3443	0.09667	9.5996	0.10417	42.6064	4.4384
11	1.0857	0.9211	11.4219	0.08755	10.5207	0.09505	51.8174	4.9253
12	1.0938	0.9142	12.5076	0.07995	11.4349	0.08745	61.8740	5.4110
13	1.1020	0.9074	13.6014	0.07352	12.3423	0.08102	72.7632	5.8954
14	1.1103	0.9007	14.7034	0.06801	13.2430	0.07551	84.4720	6.3786
15	1.1186	0.8940	15.8137	0.06324	14.1370	0.07074	96.9876	6.8606
16	1.1270	0.8873	16.9323	0.05906	15.0243	0.06656	110.2973	7.3413
17	1.1354	0.8807	18.0593	0.05537	15.9050	0.06287	124.3887	7.8207
18	1.1440	0.8742	19.1947	0.05210	16.7792	0.05960	139.2494	8.2989
19	1.1525	0.8676	20.3387	0.04917	17.6468	0.05667	154.8671	8.7759
20	1.1612	0.8612	21.4912	0.04653	18.5080	0.05403	171.2297	9.2516
21	1.1699	0.8548	22.6524	0.04415	19.3628	0.05165	188.3253	9.7261
22	1.1787	0.8484	23.8223	0.04198	20.2112	0.04948	206.1420	10.1994
23	1.1875	0.8421	25.0010	0.04000	21.0533	0.04750	224.6682	10.6714
24	1.1964	0.8358	26.1885	0.03818	21.8891	0.04568	243.8923	11.1422
25	1.2054	0.8296	27.3849	0.03652	22.7188	0.04402	263.8029	11.6117
26	1.2144	0.8234	28.5903	0.03498	23.5422	0.04248	284.3888	12.0800
27	1.2235	0.8173	29.8047	0.03355	24.3595	0.04105	305.6387	12.5470
28	1.2327	0.8112	31.0282	0.03223	25.1707	0.03973	327.5416	13.0128
29	1.2420	0.8052	32.2609	0.03100	25.9759	0.03850	350.0867	13.4774
30	1.2513	0.7992	33.5029	0.02985	26.7751	0.03735	373.2631	13.9407
31	1.2607	0.7932	34.7542	0.02877	27.5683	0.03627	397.0602	14.4028
32	1.2701	0.7873	36.0148	0.02777	28.3557	0.03527	421.4675	14.8636
33	1.2796	0.7815	37.2849	0.02682	29.1371	0.03432	446.4746	15.3232
34	1.2892	0.7757	38.5646	0.02593	29.9128	0.03343	472.0712	15.7816
35	1.2989	0.7699	39.8538	0.02509	30.6827	0.03259	498.2471	16.2387
36	1.3086	0.7641	41.1527	0.02430	31.4468	0.03180	524.9924	16.6946
37	1.3185	0.7585	42.4614	0.02355	32.2053	0.03105	552.2969	17.1493
38	1.3283	0.7528	43.7798	0.02284	32.9581	0.03034	580.1511	17.6027
39	1.3383	0.7472	45.1082	0.02217	33.7053	0.02967	608.5451	18.0549
40	1.3483	0.7416	46.4465	0.02153	34.4469	0.02903	637.4693	18.5058
41	1.3585	0.7361	47.7948	0.02092	35.1831	0.02842	666.9144	18.9556
42	1.3686	0.7306	49.1533	0.02034	35.9137	0.02784	696.8709	19.4040
44	1.3893	0.7198	51.9009	0.01927	37.3587	0.02677	758.2815	20.2973
45	1.3997	0.7145	53.2901	0.01877	38.0732	0.02627	789.7173	20.7421
46	1.4102	0.7091	54.6898	0.01828	38.7823	0.02578	821.6283	21.1856
47	1.4207	0.7039	56.1000	0.01783	39.4862	0.02533	854.0056	21.6280
48	1.4314	0.6986	57.5207	0.01739	40.1848	0.02489	886.8404	22.0691
50	1.4530	0.6883	60.3943	0.01656	41.5664	0.02406	953.8486	22.9476
55	1.5083	0.6630	67.7688	0.01476	44.9316	0.02226	1128.7869	25.1223
60	1.5657	0.6387	75.4241	0.01326	48.1734	0.02076	1313.5189	27.2665
65	1.6253	0.6153	83.3709	0.01199	51.2963	0.01949	1507.0910	29.3801
70	1.6872	0.5927	91.6201	0.01091	54.3046	0.01841	1708.6065	31.4634
72	1.7126	0.5839	95.0070	0.01053	55.4768	0.01803	1791.2463	32.2882
75	1.7514	0.5710	100.1833	0.00998	57.2027	0.01748	1917.2225	33.5163
80	1.8180	0.5500	109.0725	0.00917	59.9944	0.01667	2132.1472	35.5391
84	1.8732	0.5338	116.4269	0.00859	62.1540	0.01609	2308.1283	37.1357
85	1.8873	0.5299	118.3001	0.00845	62.6838	0.01595	2352.6375	37.5318
96	2.0489	0.4881	139.8562	0.00715	68.2584	0.01465	2853.9352	41.8107
100	2.1111	0.4737	148.1445	0.00675	70.1746	0.01425	3040.7453	43.3311

i= 1%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0100	0.9901	1.0000	1.00000	0.9901	1.01000	0.0000	0.0000
2	1.0201	0.9803	2.0100	0.49751	1.9704	0.50751	0.9803	0.4975
3	1.0303	0.9706	3.0301	0.33002	2.9410	0.34002	2.9215	0.9934
4	1.0406	0.9610	4.0604	0.24628	3.9020	0.25628	5.8044	1.4876
5	1.0510	0.9515	5.1010	0.19604	4.8534	0.20604	9.6103	1.9801
6	1.0615	0.9420	6.1520	0.16255	5.7955	0.17255	14.3205	2.4710
7	1.0721	0.9327	7.2135	0.13863	6.7282	0.14863	19.9168	2.9602
8	1.0829	0.9235	8.2857	0.12069	7.6517	0.13069	26.3812	3.4478
9	1.0937	0.9143	9.3685	0.10674	8.5660	0.11674	33.6959	3.9337
10	1.1046	0.9053	10.4622	0.09558	9.4713	0.10558	41.8435	4.4179
11	1.1157	0.8963	11.5668	0.08645	10.3676	0.09645	50.8067	4.9005
12	1.1268	0.8874	12.6825	0.07885	11.2551	0.08885	60.5687	5.3815
13	1.1381	0.8787	13.8093	0.07241	12.1337	0.08241	71.1126	5.8607
14	1.1495	0.8700	14.9474	0.06690	13.0037	0.07690	82.4221	6.3384
15	1.1610	0.8613	16.0969	0.06212	13.8651	0.07212	94.4810	6.8143
16	1.1726	0.8528	17.2579	0.05794	14.7179	0.06794	107.2734	7.2886
17	1.1843	0.8444	18.4304	0.05426	15.5623	0.06426	120.7834	7.7613
18	1.1961	0.8360	19.6147	0.05098	16.3983	0.06098	134.9957	8.2323
19	1.2081	0.8277	20.8109	0.04805	17.2260	0.05805	149.8950	8.7017
20	1.2202	0.8195	22.0190	0.04542	18.0456	0.05542	165.4664	9.1694
21	1.2324	0.8114	23.2392	0.04303	18.8570	0.05303	181.6950	9.6354
22	1.2447	0.8034	24.4716	0.04086	19.6604	0.05086	198.5663	10.0998
23	1.2572	0.7954	25.7163	0.03889	20.4558	0.04889	216.0660	10.5626
24	1.2697	0.7876	26.9735	0.03707	21.2434	0.04707	234.1800	11.0237
25	1.2824	0.7798	28.2432	0.03541	22.0232	0.04541	252.8945	11.4831
26	1.2953	0.7720	29.5256	0.03387	22.7952	0.04387	272.1957	11.9409
27	1.3082	0.7644	30.8209	0.03245	23.5596	0.04245	292.0702	12.3971
28	1.3213	0.7568	32.1291	0.03112	24.3164	0.04112	312.5047	12.8516
29	1.3345	0.7493	33.4504	0.02990	25.0658	0.03990	333.4863	13.3044
30	1.3478	0.7419	34.7849	0.02875	25.8077	0.03875	355.0021	13.7557
31	1.3613	0.7346	36.1327	0.02768	26.5423	0.03768	377.0394	14.2052
32	1.3749	0.7273	37.4941	0.02667	27.2696	0.03667	399.5858	14.6532
33	1.3887	0.7201	38.8690	0.02573	27.9897	0.03573	422.6291	15.0995
34	1.4026	0.7130	40.2577	0.02484	28.7027	0.03484	446.1572	15.5441
35	1.4166	0.7059	41.6603	0.02400	29.4086	0.03400	470.1583	15.9871
36	1.4308	0.6989	43.0769	0.02321	30.1075	0.03321	494.6207	16.4285
37	1.4451	0.6920	44.5076	0.02247	30.7995	0.03247	519.5329	16.8682
38	1.4595	0.6852	45.9527	0.02176	31.4847	0.03176	544.8835	17.3063
39	1.4741	0.6784	47.4123	0.02109	32.1630	0.03109	570.6616	17.7428
40	1.4889	0.6717	48.8864	0.02046	32.8347	0.03046	596.8561	18.1776
41	1.5038	0.6650	50.3752	0.01985	33.4997	0.02985	623.4562	18.6108
42	1.5188	0.6584	51.8790	0.01928	34.1581	0.02928	650.4514	19.0424
44	1.5493	0.6454	54.9318	0.01820	35.4555	0.02820	705.5853	19.9006
45	1.5648	0.6391	56.4811	0.01771	36.0945	0.02771	733.7037	20.3273
46	1.5805	0.6327	58.0459	0.01723	36.7272	0.02723	762.1765	20.7524
47	1.5963	0.6265	59.6263	0.01677	37.3537	0.02677	790.9938	21.1758
48	1.6122	0.6203	61.2226	0.01633	37.9740	0.02633	820.1460	21.5976
50	1.6446	0.6080	64.4632	0.01551	39.1961	0.02551	879.4176	22.4363
55	1.7285	0.5785	72.8525	0.01373	42.1472	0.02373	1032.8148	24.5049
60	1.8167	0.5504	81.6697	0.01224	44.9550	0.02224	1192.8061	26.5333
65	1.9094	0.5237	90.9366	0.01100	47.6266	0.02100	1358.3903	28.5217
70	2.0068	0.4983	100.6763	0.00993	50.1685	0.01993	1528.6474	30.4703
72	2.0471	0.4885	104.7099	0.00955	51.1504	0.01955	1597.8673	31.2386
75	2.1091	0.4741	110.9128	0.00902	52.5871	0.01902	1702.7340	32.3793
80	2.2167	0.4511	121.6715	0.00822	54.8882	0.01822	1879.8771	34.2492
84	2.3067	0.4335	130.6723	0.00765	56.6485	0.01765	2023.3153	35.7170
85	2.3298	0.4292	132.9790	0.00752	57.0777	0.01752	2059.3701	36.0801
96	2.5993	0.3847	159.9273	0.00625	61.5277	0.01625	2459.4298	39.9727
100	2.7048	0.3697	170.4814	0.00587	63.0289	0.01587	2605.7758	41.3426

i= 1.25%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0125	0.9877	1.0000	1.00000	0.9877	1.01250	0.0000	0.0000
2	1.0252	0.9755	2.0125	0.49689	1.9631	0.50939	0.9755	0.4969
3	1.0380	0.9634	3.0377	0.32920	2.9265	0.34170	2.9023	0.9917
4	1.0509	0.9515	4.0756	0.24536	3.8781	0.25786	5.7569	1.4845
5	1.0641	0.9398	5.1266	0.19506	4.8178	0.20756	9.5160	1.9752
6	1.0774	0.9282	6.1907	0.16153	5.7460	0.17403	14.1569	2.4638
7	1.0909	0.9167	7.2680	0.13759	6.6627	0.15009	19.6571	2.9503
8	1.1045	0.9054	8.3589	0.11963	7.5681	0.13213	25.9949	3.4348
9	1.1183	0.8942	9.4634	0.10567	8.4623	0.11817	33.1487	3.9172
10	1.1323	0.8832	10.5817	0.09450	9.3455	0.10700	41.0973	4.3975
11	1.1464	0.8723	11.7139	0.08537	10.2178	0.09787	49.8201	4.8758
12	1.1608	0.8615	12.8604	0.07776	11.0793	0.09026	59.2967	5.3520
13	1.1753	0.8509	14.0211	0.07132	11.9302	0.08382	69.5072	5.8262
14	1.1900	0.8404	15.1964	0.06581	12.7706	0.07831	80.4320	6.2982
15	1.2048	0.8300	16.3863	0.06103	13.6005	0.07353	92.0519	6.7682
16	1.2199	0.8197	17.5912	0.05685	14.4203	0.06935	104.3481	7.2362
17	1.2351	0.8096	18.8111	0.05316	15.2299	0.06566	117.3021	7.7021
18	1.2506	0.7996	20.0462	0.04988	16.0295	0.06238	130.8958	8.1659
19	1.2662	0.7898	21.2968	0.04696	16.8193	0.05946	145.1115	8.6277
20	1.2820	0.7800	22.5630	0.04432	17.5993	0.05682	159.9316	9.0874
21	1.2981	0.7704	23.8450	0.04194	18.3697	0.05444	175.3392	9.5450
22	1.3143	0.7609	25.1431	0.03977	19.1306	0.05227	191.3174	10.0006
23	1.3307	0.7515	26.4574	0.03780	19.8820	0.05030	207.8499	10.4542
24	1.3474	0.7422	27.7881	0.03599	20.6242	0.04849	224.9204	10.9056
25	1.3642	0.7330	29.1354	0.03432	21.3573	0.04682	242.5132	11.3551
26	1.3812	0.7240	30.4996	0.03279	22.0813	0.04529	260.6128	11.8024
27	1.3985	0.7150	31.8809	0.03137	22.7963	0.04387	279.2040	12.2478
28	1.4160	0.7062	33.2794	0.03005	23.5025	0.04255	298.2719	12.6911
29	1.4337	0.6975	34.6954	0.02882	24.2000	0.04132	317.8019	13.1323
30	1.4516	0.6889	36.1291	0.02768	24.8889	0.04018	337.7797	13.5715
31	1.4698	0.6804	37.5807	0.02661	25.5693	0.03911	358.1912	14.0086
32	1.4881	0.6720	39.0504	0.02561	26.2413	0.03811	379.0227	14.4438
33	1.5067	0.6637	40.5386	0.02467	26.9050	0.03717	400.2607	14.8768
34	1.5256	0.6555	42.0453	0.02378	27.5605	0.03628	421.8920	15.3079
35	1.5446	0.6474	43.5709	0.02295	28.2079	0.03545	443.9037	15.7369
36	1.5639	0.6394	45.1155	0.02217	28.8473	0.03467	466.2830	16.1639
37	1.5835	0.6315	46.6794	0.02142	29.4788	0.03392	489.0176	16.5888
38	1.6033	0.6237	48.2629	0.02072	30.1025	0.03322	512.0952	17.0117
39	1.6233	0.6160	49.8662	0.02005	30.7185	0.03255	535.5039	17.4326
40	1.6436	0.6084	51.4896	0.01942	31.3269	0.03192	559.2320	17.8515
41	1.6642	0.6009	53.1332	0.01882	31.9278	0.03132	583.2681	18.2683
42	1.6850	0.5935	54.7973	0.01825	32.5213	0.03075	607.6009	18.6832
43	1.7060	0.5862	56.4823	0.01770	33.1075	0.03020	632.2195	19.0960
44	1.7274	0.5789	58.1883	0.01719	33.6864	0.02969	657.1130	19.5068
45	1.7489	0.5718	59.9157	0.01669	34.2582	0.02919	682.2710	19.9156
46	1.7708	0.5647	61.6646	0.01622	34.8229	0.02872	707.6832	20.3224
47	1.7929	0.5577	63.4354	0.01576	35.3806	0.02826	733.3393	20.7271
48	1.8154	0.5509	65.2284	0.01533	35.9315	0.02783	759.2296	21.1299
50	1.8610	0.5373	68.8818	0.01452	37.0129	0.02702	811.6738	21.9295
55	1.9803	0.5050	78.4225	0.01275	39.6017	0.02525	946.2277	23.8936
60	2.1072	0.4746	88.5745	0.01129	42.0346	0.02379	1084.8429	25.8083
65	2.2422	0.4460	99.3771	0.01006	44.3210	0.02256	1226.5421	27.6741
70	2.3859	0.4191	110.8720	0.00902	46.4697	0.02152	1370.4513	29.4913
72	2.4459	0.4088	115.6736	0.00865	47.2925	0.02115	1428.4561	30.2047
75	2.5388	0.3939	123.1035	0.00812	48.4890	0.02062	1515.7904	31.2605
80	2.7015	0.3702	136.1188	0.00735	50.3867	0.01985	1661.8651	32.9822
84	2.8391	0.3522	147.1290	0.00680	51.8222	0.01930	1778.8384	34.3258
85	2.8746	0.3479	149.9682	0.00667	52.1701	0.01917	1808.0598	34.6570
96	3.2955	0.3034	183.6411	0.00545	55.7246	0.01795	2127.5244	38.1793
100	3.4634	0.2887	197.0723	0.00507	56.9013	0.01757	2242.2411	39.4058

i= 1.5%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0150	0.9852	1.0000	1.00000	0.9852	1.01500	0.0000	0.0000
2	1.0302	0.9707	2.0150	0.49628	1.9559	0.51128	0.9707	0.4963
3	1.0457	0.9563	3.0452	0.32838	2.9122	0.34338	2.8833	0.9901
4	1.0614	0.9422	4.0909	0.24444	3.8544	0.25944	5.7098	1.4814
5	1.0773	0.9283	5.1523	0.19409	4.7826	0.20909	9.4229	1.9702
6	1.0934	0.9145	6.2296	0.16053	5.6972	0.17553	13.9956	2.4566
7	1.1098	0.9010	7.3230	0.13656	6.5982	0.15156	19.4018	2.9405
8	1.1265	0.8877	8.4328	0.11858	7.4859	0.13358	25.6157	3.4219
9	1.1434	0.8746	9.5593	0.10461	8.3605	0.11961	32.6125	3.9008
10	1.1605	0.8617	10.7027	0.09343	9.2222	0.10843	40.3675	4.3772
11	1.1779	0.8489	11.8633	0.08429	10.0711	0.09929	48.8568	4.8512
12	1.1956	0.8364	13.0412	0.07668	10.9075	0.09168	58.0571	5.3227
13	1.2136	0.8240	14.2368	0.07024	11.7315	0.08524	67.9454	5.7917
14	1.2318	0.8118	15.4504	0.06472	12.5434	0.07972	78.4994	6.2582
15	1.2502	0.7999	16.6821	0.05994	13.3432	0.07494	89.6974	6.7223
16	1.2690	0.7880	17.9324	0.05577	14.1313	0.07077	101.5178	7.1839
17	1.2880	0.7764	19.2014	0.05208	14.9076	0.06708	113.9400	7.6431
18	1.3073	0.7649	20.4894	0.04881	15.6726	0.06381	126.9435	8.0997
19	1.3270	0.7536	21.7967	0.04588	16.4262	0.06088	140.5084	8.5539
20	1.3469	0.7425	23.1237	0.04325	17.1686	0.05825	154.6154	9.0057
21	1.3671	0.7315	24.4705	0.04087	17.9001	0.05587	169.2453	9.4550
22	1.3876	0.7207	25.8376	0.03870	18.6208	0.05370	184.3798	9.9018
23	1.4084	0.7100	27.2251	0.03673	19.3309	0.05173	200.0006	10.3462
24	1.4295	0.6995	28.6335	0.03492	20.0304	0.04992	216.0901	10.7881
25	1.4509	0.6892	30.0630	0.03326	20.7196	0.04826	232.6310	11.2276
26	1.4727	0.6790	31.5140	0.03173	21.3986	0.04673	249.6065	11.6646
27	1.4948	0.6690	32.9867	0.03032	22.0676	0.04532	267.0002	12.0992
28	1.5172	0.6591	34.4815	0.02900	22.7267	0.04400	284.7958	12.5313
29	1.5400	0.6494	35.9987	0.02778	23.3761	0.04278	302.9779	12.9610
30	1.5631	0.6398	37.5387	0.02664	24.0158	0.04164	321.5310	13.3883
31	1.5865	0.6303	39.1018	0.02557	24.6461	0.04057	340.4402	13.8131
32	1.6103	0.6210	40.6883	0.02458	25.2671	0.03958	359.6910	14.2355
33	1.6345	0.6118	42.2986	0.02364	25.8790	0.03864	379.2691	14.6555
34	1.6590	0.6028	43.9331	0.02276	26.4817	0.03776	399.1607	15.0731
35	1.6839	0.5939	45.5921	0.02193	27.0756	0.03693	419.3521	15.4882
36	1.7091	0.5851	47.2760	0.02115	27.6607	0.03615	439.8303	15.9009
37	1.7348	0.5764	48.9851	0.02041	28.2371	0.03541	460.5822	16.3112
38	1.7608	0.5679	50.7199	0.01972	28.8051	0.03472	481.5954	16.7191
39	1.7872	0.5595	52.4807	0.01905	29.3646	0.03405	502.8576	17.1246
40	1.8140	0.5513	54.2679	0.01843	29.9158	0.03343	524.3568	17.5277
41	1.8412	0.5431	56.0819	0.01783	30.4590	0.03283	546.0814	17.9284
42	1.8688	0.5351	57.9231	0.01726	30.9941	0.03226	568.0201	18.3267
43	1.8969	0.5272	59.7920	0.01672	31.5212	0.03172	590.1617	18.7227
44	1.9253	0.5194	61.6889	0.01621	32.0406	0.03121	612.4955	19.1162
45	1.9542	0.5117	63.6142	0.01572	32.5523	0.03072	635.0110	19.5074
46	1.9835	0.5042	65.5684	0.01525	33.0565	0.03025	657.6979	19.8962
47	2.0133	0.4967	67.5519	0.01480	33.5532	0.02980	680.5462	20.2826
48	2.0435	0.4894	69.5652	0.01437	34.0426	0.02937	703.5462	20.6667
50	2.1052	0.4750	73.6828	0.01357	34.9997	0.02857	749.9636	21.4277
55	2.2679	0.4409	84.5296	0.01183	37.2715	0.02683	868.0285	23.2894
60	2.4432	0.4093	96.2147	0.01039	39.3803	0.02539	988.1674	25.0930
65	2.6320	0.3799	108.8028	0.00919	41.3378	0.02419	1109.4752	26.8393
70	2.8355	0.3527	122.3638	0.00817	43.1549	0.02317	1231.1658	28.5290
72	2.9212	0.3423	128.0772	0.00781	43.8447	0.02281	1279.7938	29.1893
75	3.0546	0.3274	136.9728	0.00730	44.8416	0.02230	1352.5600	30.1631
80	3.2907	0.3039	152.7109	0.00655	46.4073	0.02155	1473.0741	31.7423
84	3.4926	0.2863	166.1726	0.00602	47.5786	0.02102	1568.5140	32.9668
85	3.5450	0.2821	169.6652	0.00589	47.8607	0.02089	1592.2095	33.2676
96	4.1758	0.2395	211.7202	0.00472	50.7017	0.01972	1847.4725	36.4381
100	4.4320	0.2256	228.8030	0.00437	51.6247	0.01937	1937.4506	37.5295

i= 2%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0200	0.9804	1.0000	1.00000	0.9804	1.02000	0.0000	0.0000
2	1.0404	0.9612	2.0200	0.49505	1.9416	0.51505	0.9612	0.4950
3	1.0612	0.9423	3.0604	0.32675	2.8839	0.34675	2.8458	0.9868
4	1.0824	0.9238	4.1216	0.24262	3.8077	0.26262	5.6173	1.4752
5	1.1041	0.9057	5.2040	0.19216	4.7135	0.21216	9.2403	1.9604
6	1.1262	0.8880	6.3081	0.15853	5.6014	0.17853	13.6801	2.4423
7	1.1487	0.8706	7.4343	0.13451	6.4720	0.15451	18.9035	2.9208
8	1.1717	0.8535	8.5830	0.11651	7.3255	0.13651	24.8779	3.3961
9	1.1951	0.8368	9.7546	0.10252	8.1622	0.12252	31.5720	3.8681
10	1.2190	0.8203	10.9497	0.09133	8.9826	0.11133	38.9551	4.3367
11	1.2434	0.8043	12.1687	0.08218	9.7868	0.10218	46.9977	4.8021
12	1.2682	0.7885	13.4121	0.07456	10.5753	0.09456	55.6712	5.2642
13	1.2936	0.7730	14.6803	0.06812	11.3484	0.08812	64.9475	5.7231
14	1.3195	0.7579	15.9739	0.06260	12.1062	0.08260	74.7999	6.1786
15	1.3459	0.7430	17.2934	0.05783	12.8493	0.07783	85.2021	6.6309
16	1.3728	0.7284	18.6393	0.05365	13.5777	0.07365	96.1288	7.0799
17	1.4002	0.7142	20.0121	0.04997	14.2919	0.06997	107.5554	7.5256
18	1.4282	0.7002	21.4123	0.04670	14.9920	0.06670	119.4581	7.9681
19	1.4568	0.6864	22.8406	0.04378	15.6785	0.06378	131.8139	8.4073
20	1.4859	0.6730	24.2974	0.04116	16.3514	0.06116	144.6003	8.8433
21	1.5157	0.6598	25.7833	0.03878	17.0112	0.05878	157.7959	9.2760
22	1.5460	0.6468	27.2990	0.03663	17.6580	0.05663	171.3795	9.7055
23	1.5769	0.6342	28.8450	0.03467	18.2922	0.05467	185.3309	10.1317
24	1.6084	0.6217	30.4219	0.03287	18.9139	0.05287	199.6305	10.5547
25	1.6406	0.6095	32.0303	0.03122	19.5235	0.05122	214.2592	10.9745
26	1.6734	0.5976	33.6709	0.02970	20.1210	0.04970	229.1987	11.3910
27	1.7069	0.5859	35.3443	0.02829	20.7069	0.04829	244.4311	11.8043
28	1.7410	0.5744	37.0512	0.02699	21.2813	0.04699	259.9392	12.2145
29	1.7758	0.5631	38.7922	0.02578	21.8444	0.04578	275.7064	12.6214
30	1.8114	0.5521	40.5681	0.02465	22.3965	0.04465	291.7164	13.0251
31	1.8476	0.5412	42.3794	0.02360	22.9377	0.04360	307.9538	13.4257
32	1.8845	0.5306	44.2270	0.02261	23.4683	0.04261	324.4035	13.8230
33	1.9222	0.5202	46.1116	0.02169	23.9886	0.04169	341.0508	14.2172
34	1.9607	0.5100	48.0338	0.02082	24.4986	0.04082	357.8817	14.6083
35	1.9999	0.5000	49.9945	0.02000	24.9986	0.04000	374.8826	14.9961
36	2.0399	0.4902	51.9944	0.01923	25.4888	0.03923	392.0405	15.3809
37	2.0807	0.4806	54.0343	0.01851	25.9695	0.03851	409.3424	15.7625
38	2.1223	0.4712	56.1149	0.01782	26.4406	0.03782	426.7764	16.1409
39	2.1647	0.4619	58.2372	0.01717	26.9026	0.03717	444.3304	16.5163
40	2.2080	0.4529	60.4020	0.01656	27.3555	0.03656	461.9931	16.8885
41	2.2522	0.4440	62.6100	0.01597	27.7995	0.03597	479.7535	17.2576
42	2.2972	0.4353	64.8622	0.01542	28.2348	0.03542	497.6010	17.6237
43	2.3432	0.4268	67.1595	0.01489	28.6616	0.03489	515.5253	17.9866
44	2.3901	0.4184	69.5027	0.01439	29.0800	0.03439	533.5165	18.3465
45	2.4379	0.4102	71.8927	0.01391	29.4902	0.03391	551.5652	18.7034
46	2.4866	0.4022	74.3306	0.01345	29.8923	0.03345	569.6621	19.0571
47	2.5363	0.3943	76.8172	0.01302	30.2866	0.03302	587.7985	19.4079
48	2.5871	0.3865	79.3535	0.01260	30.6731	0.03260	605.9657	19.7556
50	2.6916	0.3715	84.5794	0.01182	31.4236	0.03182	642.3606	20.4420
55	2.9717	0.3365	98.5865	0.01014	33.1748	0.03014	733.3527	22.1057
60	3.2810	0.3048	114.0515	0.00877	34.7609	0.02877	823.6975	23.6961
65	3.6225	0.2761	131.1262	0.00763	36.1975	0.02763	912.7085	25.2147
70	3.9996	0.2500	149.9779	0.00667	37.4986	0.02667	999.8343	26.6632
72	4.1611	0.2403	158.0570	0.00633	37.9841	0.02633	1034.0557	27.2234
75	4.4158	0.2265	170.7918	0.00586	38.6771	0.02586	1084.6393	28.0434
80	4.8754	0.2051	193.7720	0.00516	39.7445	0.02516	1166.7868	29.3572
84	5.2773	0.1895	213.8666	0.00468	40.5255	0.02468	1230.4191	30.3616
85	5.3829	0.1858	219.1439	0.00456	40.7113	0.02456	1246.0241	30.6064
96	6.6929	0.1494	284.6467	0.00351	42.5294	0.02351	1409.2973	33.1370
100	7.2446	0.1380	312.2323	0.00320	43.0984	0.02320	1464.7527	33.9863

i= 3.0%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0300	0.9709	1.0000	1.00000	0.9709	1.03000	0.0000	0.0000
2	1.0609	0.9426	2.0300	0.49261	1.9135	0.52261	0.9426	0.4926
3	1.0927	0.9151	3.0909	0.32353	2.8286	0.35353	2.7729	0.9803
4	1.1255	0.8885	4.1836	0.23903	3.7171	0.26903	5.4383	1.4631
5	1.1593	0.8626	5.3091	0.18835	4.5797	0.21835	8.8888	1.9409
6	1.1941	0.8375	6.4684	0.15460	5.4172	0.18460	13.0762	2.4138
7	1.2299	0.8131	7.6625	0.13051	6.2303	0.16051	17.9547	2.8819
8	1.2668	0.7894	8.8923	0.11246	7.0197	0.14246	23.4806	3.3450
9	1.3048	0.7664	10.1591	0.09843	7.7861	0.12843	29.6119	3.8032
10	1.3439	0.7441	11.4639	0.08723	8.5302	0.11723	36.3088	4.2565
11	1.3842	0.7224	12.8078	0.07808	9.2526	0.10808	43.5330	4.7049
12	1.4258	0.7014	14.1920	0.07046	9.9540	0.10046	51.2482	5.1485
13	1.4685	0.6810	15.6178	0.06403	10.6350	0.09403	59.4196	5.5872
14	1.5126	0.6611	17.0863	0.05853	11.2961	0.08853	68.0141	6.0210
15	1.5580	0.6419	18.5989	0.05377	11.9379	0.08377	77.0002	6.4500
16	1.6047	0.6232	20.1569	0.04961	12.5611	0.07961	86.3477	6.8742
17	1.6528	0.6050	21.7616	0.04595	13.1661	0.07595	96.0280	7.2936
18	1.7024	0.5874	23.4144	0.04271	13.7535	0.07271	106.0137	7.7081
19	1.7535	0.5703	25.1169	0.03981	14.3238	0.06981	116.2788	8.1179
20	1.8061	0.5537	26.8704	0.03722	14.8775	0.06722	126.7987	8.5229
21	1.8603	0.5375	28.6765	0.03487	15.4150	0.06487	137.5496	8.9231
22	1.9161	0.5219	30.5368	0.03275	15.9369	0.06275	148.5094	9.3186
23	1.9736	0.5067	32.4529	0.03081	16.4436	0.06081	159.6566	9.7093
24	2.0328	0.4919	34.4265	0.02905	16.9355	0.05905	170.9711	10.0954
25	2.0938	0.4776	36.4593	0.02743	17.4131	0.05743	182.4336	10.4768
26	2.1566	0.4637	38.5530	0.02594	17.8768	0.05594	194.0260	10.8535
27	2.2213	0.4502	40.7096	0.02456	18.3270	0.05456	205.7309	11.2255
28	2.2879	0.4371	42.9309	0.02329	18.7641	0.05329	217.5320	11.5930
29	2.3566	0.4243	45.2189	0.02211	19.1885	0.05211	229.4137	11.9558
30	2.4273	0.4120	47.5754	0.02102	19.6004	0.05102	241.3613	12.3141
31	2.5001	0.4000	50.0027	0.02000	20.0004	0.05000	253.3609	12.6678
32	2.5751	0.3883	52.5028	0.01905	20.3888	0.04905	265.3993	13.0169
33	2.6523	0.3770	55.0778	0.01816	20.7658	0.04816	277.4642	13.3616
34	2.7319	0.3660	57.7302	0.01732	21.1318	0.04732	289.5437	13.7018
35	2.8139	0.3554	60.4621	0.01654	21.4872	0.04654	301.6267	14.0375
36	2.8983	0.3450	63.2759	0.01580	21.8323	0.04580	313.7028	14.3688
37	2.9852	0.3350	66.1742	0.01511	22.1672	0.04511	325.7622	14.6957
38	3.0748	0.3252	69.1594	0.01446	22.4925	0.04446	337.7956	15.0182
39	3.1670	0.3158	72.2342	0.01384	22.8082	0.04384	349.7942	15.3363
40	3.2620	0.3066	75.4013	0.01326	23.1148	0.04326	361.7499	15.6502
41	3.3599	0.2976	78.6633	0.01271	23.4124	0.04271	373.6551	15.9597
42	3.4607	0.2890	82.0232	0.01219	23.7014	0.04219	385.5024	16.2650
43	3.5645	0.2805	85.4839	0.01170	23.9819	0.04170	397.2852	16.5660
44	3.6715	0.2724	89.0484	0.01123	24.2543	0.04123	408.9972	16.8629
45	3.7816	0.2644	92.7199	0.01079	24.5187	0.04079	420.6325	17.1556
46	3.8950	0.2567	96.5015	0.01036	24.7754	0.04036	432.1856	17.4441
47	4.0119	0.2493	100.3965	0.00996	25.0247	0.03996	443.6515	17.7285
48	4.1323	0.2420	104.4084	0.00958	25.2667	0.03958	455.0255	18.0089
50	4.3839	0.2281	112.7969	0.00887	25.7298	0.03887	477.4803	18.5575
55	5.0821	0.1968	136.0716	0.00735	26.7744	0.03735	531.7411	19.8600
60	5.8916	0.1697	163.0534	0.00613	27.6756	0.03613	583.0526	21.0674
65	6.8300	0.1464	194.3328	0.00515	28.4529	0.03515	631.2010	22.1841
70	7.9178	0.1263	230.5941	0.00434	29.1234	0.03434	676.0869	23.2145
72	8.4000	0.1190	246.6672	0.00405	29.3651	0.03405	693.1226	23.6036
75	9.1789	0.1089	272.6309	0.00367	29.7018	0.03367	717.6978	24.1634
80	10.6409	0.0940	321.3630	0.00311	30.2008	0.03311	756.0865	25.0353
84	11.9764	0.0835	365.8805	0.00273	30.5501	0.03273	784.5434	25.6806
85	12.3357	0.0811	377.8570	0.00265	30.6312	0.03265	791.3529	25.8349
96	17.0755	0.0586	535.8502	0.00187	31.3812	0.03187	858.6377	27.3615
100	19.2186	0.0520	607.2877	0.00165	31.5989	0.03165	879.8540	27.8444

i= 4%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0400	0.9615	1.0000	1.00000	0.9615	1.04000	0.0000	0.0000
2	1.0816	0.9246	2.0400	0.49020	1.8861	0.53020	0.9246	0.4902
3	1.1249	0.8890	3.1216	0.32035	2.7751	0.36035	2.7025	0.9739
4	1.1699	0.8548	4.2465	0.23549	3.6299	0.27549	5.2670	1.4510
5	1.2167	0.8219	5.4163	0.18463	4.4518	0.22463	8.5547	1.9216
6	1.2653	0.7903	6.6330	0.15076	5.2421	0.19076	12.5062	2.3857
7	1.3159	0.7599	7.8983	0.12661	6.0021	0.16661	17.0657	2.8433
8	1.3686	0.7307	9.2142	0.10853	6.7327	0.14853	22.1806	3.2944
9	1.4233	0.7026	10.5828	0.09449	7.4353	0.13449	27.8013	3.7391
10	1.4802	0.6756	12.0061	0.08329	8.1109	0.12329	33.8814	4.1773
11	1.5395	0.6496	13.4864	0.07415	8.7605	0.11415	40.3772	4.6090
12	1.6010	0.6246	15.0258	0.06655	9.3851	0.10655	47.2477	5.0343
13	1.6651	0.6006	16.6268	0.06014	9.9856	0.10014	54.4546	5.4533
14	1.7317	0.5775	18.2919	0.05467	10.5631	0.09467	61.9618	5.8659
15	1.8009	0.5553	20.0236	0.04994	11.1184	0.08994	69.7355	6.2721
16	1.8730	0.5339	21.8245	0.04582	11.6523	0.08582	77.7441	6.6720
17	1.9479	0.5134	23.6975	0.04220	12.1657	0.08220	85.9581	7.0656
18	2.0258	0.4936	25.6454	0.03899	12.6593	0.07899	94.3498	7.4530
19	2.1068	0.4746	27.6712	0.03614	13.1339	0.07614	102.8933	7.8342
20	2.1911	0.4564	29.7781	0.03358	13.5903	0.07358	111.5647	8.2091
21	2.2788	0.4388	31.9692	0.03128	14.0292	0.07128	120.3414	8.5779
22	2.3699	0.4220	34.2480	0.02920	14.4511	0.06920	129.2024	8.9407
23	2.4647	0.4057	36.6179	0.02731	14.8568	0.06731	138.1284	9.2973
24	2.5633	0.3901	39.0826	0.02559	15.2470	0.06559	147.1012	9.6479
25	2.6658	0.3751	41.6459	0.02401	15.6221	0.06401	156.1040	9.9925
26	2.7725	0.3607	44.3117	0.02257	15.9828	0.06257	165.1212	10.3312
27	2.8834	0.3468	47.0842	0.02124	16.3296	0.06124	174.1385	10.6640
28	2.9987	0.3335	49.9676	0.02001	16.6631	0.06001	183.1424	10.9909
29	3.1187	0.3207	52.9663	0.01888	16.9837	0.05888	192.1206	11.3120
30	3.2434	0.3083	56.0849	0.01783	17.2920	0.05783	201.0618	11.6274
31	3.3731	0.2965	59.3283	0.01686	17.5885	0.05686	209.9556	11.9371
32	3.5081	0.2851	62.7015	0.01595	17.8736	0.05595	218.7924	12.2411
33	3.6484	0.2741	66.2095	0.01510	18.1476	0.05510	227.5634	12.5396
34	3.7943	0.2636	69.8579	0.01431	18.4112	0.05431	236.2607	12.8324
35	3.9461	0.2534	73.6522	0.01358	18.6646	0.05358	244.8768	13.1198
36	4.1039	0.2437	77.5983	0.01289	18.9083	0.05289	253.4052	13.4018
37	4.2681	0.2343	81.7022	0.01224	19.1426	0.05224	261.8399	13.6784
38	4.4388	0.2253	85.9703	0.01163	19.3679	0.05163	270.1754	13.9497
39	4.6164	0.2166	90.4091	0.01106	19.5845	0.05106	278.4070	14.2157
40	4.8010	0.2083	95.0255	0.01052	19.7928	0.05052	286.5303	14.4765
41	4.9931	0.2003	99.8265	0.01002	19.9931	0.05002	294.5414	14.7322
42	5.1928	0.1926	104.8196	0.00954	20.1856	0.04954	302.4370	14.9828
43	5.4005	0.1852	110.0124	0.00909	20.3708	0.04909	310.2141	15.2284
44	5.6165	0.1780	115.4129	0.00866	20.5488	0.04866	317.8700	15.4690
45	5.8412	0.1712	121.0294	0.00826	20.7200	0.04826	325.4028	15.7047
46	6.0748	0.1646	126.8706	0.00788	20.8847	0.04788	332.8104	15.9356
47	6.3178	0.1583	132.9454	0.00752	21.0429	0.04752	340.0914	16.1618
48	6.5705	0.1522	139.2632	0.00718	21.1951	0.04718	347.2446	16.3832
50	7.1067	0.1407	152.6671	0.00655	21.4822	0.04655	361.1638	16.8122
55	8.6464	0.1157	191.1592	0.00523	22.1086	0.04523	393.6890	17.8070
60	10.5196	0.0951	237.9907	0.00420	22.6235	0.04420	422.9966	18.6972
65	12.7987	0.0781	294.9684	0.00339	23.0467	0.04339	449.2014	19.4909
70	15.5716	0.0642	364.2905	0.00275	23.3945	0.04275	472.4789	20.1961
72	16.8423	0.0594	396.0566	0.00252	23.5156	0.04252	481.0170	20.4552
75	18.9453	0.0528	448.6314	0.00223	23.6804	0.04223	493.0408	20.8206
80	23.0498	0.0434	551.2450	0.00181	23.9154	0.04181	511.1161	21.3718
84	26.9650	0.0371	649.1251	0.00154	24.0729	0.04154	523.9431	21.7649
85	28.0436	0.0357	676.0901	0.00148	24.1085	0.04148	526.9384	21.8569
96	43.1718	0.0232	1054.2960	0.00095	24.4209	0.04095	554.9312	22.7236
100	50.5049	0.0198	1237.6237	0.00081	24.5050	0.04081	563.1249	22.9800

i= 5%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0500	0.9524	1.0000	1.00000	0.9524	1.05000	0.0000	0.0000
2	1.1025	0.9070	2.0500	0.48780	1.8594	0.53780	0.9070	0.4878
3	1.1576	0.8638	3.1525	0.31721	2.7232	0.36721	2.6347	0.9675
4	1.2155	0.8227	4.3101	0.23201	3.5460	0.28201	5.1028	1.4391
5	1.2763	0.7835	5.5256	0.18097	4.3295	0.23097	8.2369	1.9025
6	1.3401	0.7462	6.8019	0.14702	5.0757	0.19702	11.9680	2.3579
7	1.4071	0.7107	8.1420	0.12282	5.7864	0.17282	16.2321	2.8052
8	1.4775	0.6768	9.5491	0.10472	6.4632	0.15472	20.9700	3.2445
9	1.5513	0.6446	11.0266	0.09069	7.1078	0.14069	26.1268	3.6758
10	1.6289	0.6139	12.5779	0.07950	7.7217	0.12950	31.6520	4.0991
11	1.7103	0.5847	14.2068	0.07039	8.3064	0.12039	37.4988	4.5144
12	1.7959	0.5568	15.9171	0.06283	8.8633	0.11283	43.6241	4.9219
13	1.8856	0.5303	17.7130	0.05646	9.3936	0.10646	49.9879	5.3215
14	1.9799	0.5051	19.5986	0.05102	9.8986	0.10102	56.5538	5.7133
15	2.0789	0.4810	21.5786	0.04634	10.3797	0.09634	63.2880	6.0973
16	2.1829	0.4581	23.6575	0.04227	10.8378	0.09227	70.1597	6.4736
17	2.2920	0.4363	25.8404	0.03870	11.2741	0.08870	77.1405	6.8423
18	2.4066	0.4155	28.1324	0.03555	11.6896	0.08555	84.2043	7.2034
19	2.5270	0.3957	30.5390	0.03275	12.0853	0.08275	91.3275	7.5569
20	2.6533	0.3769	33.0660	0.03024	12.4622	0.08024	98.4884	7.9030
21	2.7860	0.3589	35.7193	0.02800	12.8212	0.07800	105.6673	8.2416
22	2.9253	0.3418	38.5052	0.02597	13.1630	0.07597	112.8461	8.5730
23	3.0715	0.3256	41.4305	0.02414	13.4886	0.07414	120.0087	8.8971
24	3.2251	0.3101	44.5020	0.02247	13.7986	0.07247	127.1402	9.2140
25	3.3864	0.2953	47.7271	0.02095	14.0939	0.07095	134.2275	9.5238
26	3.5557	0.2812	51.1135	0.01956	14.3752	0.06956	141.2585	9.8266
27	3.7335	0.2678	54.6691	0.01829	14.6430	0.06829	148.2226	10.1224
28	3.9201	0.2551	58.4026	0.01712	14.8981	0.06712	155.1101	10.4114
29	4.1161	0.2429	62.3227	0.01605	15.1411	0.06605	161.9126	10.6936
30	4.3219	0.2314	66.4388	0.01505	15.3725	0.06505	168.6226	10.9691
31	4.5380	0.2204	70.7608	0.01413	15.5928	0.06413	175.2333	11.2381
32	4.7649	0.2099	75.2988	0.01328	15.8027	0.06328	181.7392	11.5005
33	5.0032	0.1999	80.0638	0.01249	16.0025	0.06249	188.1351	11.7566
34	5.2533	0.1904	85.0670	0.01176	16.1929	0.06176	194.4168	12.0063
35	5.5160	0.1813	90.3203	0.01107	16.3742	0.06107	200.5807	12.2498
36	5.7918	0.1727	95.8363	0.01043	16.5469	0.06043	206.6237	12.4872
37	6.0814	0.1644	101.6281	0.00984	16.7113	0.05984	212.5434	12.7186
38	6.3855	0.1566	107.7095	0.00928	16.8679	0.05928	218.3378	12.9440
39	6.7048	0.1491	114.0950	0.00876	17.0170	0.05876	224.0054	13.1636
40	7.0400	0.1420	120.7998	0.00828	17.1591	0.05828	229.5452	13.3775
41	7.3920	0.1353	127.8398	0.00782	17.2944	0.05782	234.9564	13.5857
42	7.7616	0.1288	135.2318	0.00739	17.4232	0.05739	240.2389	13.7884
43	8.1497	0.1227	142.9933	0.00699	17.5459	0.05699	245.3925	13.9857
44	8.5572	0.1169	151.1430	0.00662	17.6628	0.05662	250.4175	14.1777
45	8.9850	0.1113	159.7002	0.00626	17.7741	0.05626	255.3145	14.3644
46	9.4343	0.1060	168.6852	0.00593	17.8801	0.05593	260.0844	14.5461
47	9.9060	0.1009	178.1194	0.00561	17.9810	0.05561	264.7281	14.7226
48	10.4013	0.0961	188.0254	0.00532	18.0772	0.05532	269.2467	14.8943
50	11.4674	0.0872	209.3480	0.00478	18.2559	0.05478	277.9148	15.2233
55	14.6356	0.0683	272.7126	0.00367	18.6335	0.05367	297.5104	15.9664
60	18.6792	0.0535	353.5837	0.00283	18.9293	0.05283	314.3432	16.6062
65	23.8399	0.0419	456.7980	0.00219	19.1611	0.05219	328.6910	17.1541
70	30.4264	0.0329	588.5285	0.00170	19.3427	0.05170	340.8409	17.6212
72	33.5451	0.0298	650.9027	0.00154	19.4038	0.05154	345.1485	17.7877
75	38.8327	0.0258	756.6537	0.00132	19.4850	0.05132	351.0721	18.0176
80	49.5614	0.0202	971.2288	0.00103	19.5965	0.05103	359.6460	18.3526
84	60.2422	0.0166	1184.8448	0.00084	19.6680	0.05084	365.4727	18.5821
85	63.2544	0.0158	1245.0871	0.00080	19.6838	0.05080	366.8007	18.6346
96	108.1864	0.0092	2143.7282	0.00047	19.8151	0.05047	378.5555	19.1044
100	131.5013	0.0076	2610.0252	0.00038	19.8479	0.05038	381.7492	19.2337

i= 6%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0600	0.9434	1.0000	1.00000	0.9434	1.06000	0.0000	0.0000
2	1.1236	0.8900	2.0600	0.48544	1.8334	0.54544	0.8900	0.4854
3	1.1910	0.8396	3.1836	0.31411	2.6730	0.37411	2.5692	0.9612
4	1.2625	0.7921	4.3746	0.22859	3.4651	0.28859	4.9455	1.4272
5	1.3382	0.7473	5.6371	0.17740	4.2124	0.23740	7.9345	1.8836
6	1.4185	0.7050	6.9753	0.14336	4.9173	0.20336	11.4594	2.3304
7	1.5036	0.6651	8.3938	0.11914	5.5824	0.17914	15.4497	2.7676
8	1.5938	0.6274	9.8975	0.10104	6.2098	0.16104	19.8416	3.1952
9	1.6895	0.5919	11.4913	0.08702	6.8017	0.14702	24.5768	3.6133
10	1.7908	0.5584	13.1808	0.07587	7.3601	0.13587	29.6023	4.0220
11	1.8983	0.5268	14.9716	0.06679	7.8869	0.12679	34.8702	4.4213
12	2.0122	0.4970	16.8699	0.05928	8.3838	0.11928	40.3369	4.8113
13	2.1329	0.4688	18.8821	0.05296	8.8527	0.11296	45.9629	5.1920
14	2.2609	0.4423	21.0151	0.04758	9.2950	0.10758	51.7128	5.5635
15	2.3966	0.4173	23.2760	0.04296	9.7122	0.10296	57.5546	5.9260
16	2.5404	0.3936	25.6725	0.03895	10.1059	0.09895	63.4592	6.2794
17	2.6928	0.3714	28.2129	0.03544	10.4773	0.09544	69.4011	6.6240
18	2.8543	0.3503	30.9057	0.03236	10.8276	0.09236	75.3569	6.9597
19	3.0256	0.3305	33.7600	0.02962	11.1581	0.08962	81.3062	7.2867
20	3.2071	0.3118	36.7856	0.02718	11.4699	0.08718	87.2304	7.6051
21	3.3996	0.2942	39.9927	0.02500	11.7641	0.08500	93.1136	7.9151
22	3.6035	0.2775	43.3923	0.02305	12.0416	0.08305	98.9412	8.2166
23	3.8197	0.2618	46.9958	0.02128	12.3034	0.08128	104.7007	8.5099
24	4.0489	0.2470	50.8156	0.01968	12.5504	0.07968	110.3812	8.7951
25	4.2919	0.2330	54.8645	0.01823	12.7834	0.07823	115.9732	9.0722
26	4.5494	0.2198	59.1564	0.01690	13.0032	0.07690	121.4684	9.3414
27	4.8223	0.2074	63.7058	0.01570	13.2105	0.07570	126.8600	9.6029
28	5.1117	0.1956	68.5281	0.01459	13.4062	0.07459	132.1420	9.8568
29	5.4184	0.1846	73.6398	0.01358	13.5907	0.07358	137.3096	10.1032
30	5.7435	0.1741	79.0582	0.01265	13.7648	0.07265	142.3588	10.3422
31	6.0881	0.1643	84.8017	0.01179	13.9291	0.07179	147.2864	10.5740
32	6.4534	0.1550	90.8898	0.01100	14.0840	0.07100	152.0901	10.7988
33	6.8406	0.1462	97.3432	0.01027	14.2302	0.07027	156.7681	11.0166
34	7.2510	0.1379	104.1838	0.00960	14.3681	0.06960	161.3192	11.2276
35	7.6861	0.1301	111.4348	0.00897	14.4982	0.06897	165.7427	11.4319
36	8.1473	0.1227	119.1209	0.00839	14.6210	0.06839	170.0387	11.6298
37	8.6361	0.1158	127.2681	0.00786	14.7368	0.06786	174.2072	11.8213
38	9.1543	0.1092	135.9042	0.00736	14.8460	0.06736	178.2490	12.0065
39	9.7035	0.1031	145.0585	0.00689	14.9491	0.06689	182.1652	12.1857
40	10.2857	0.0972	154.7620	0.00646	15.0463	0.06646	185.9568	12.3590
41	10.9029	0.0917	165.0477	0.00606	15.1380	0.06606	189.6256	12.5264
42	11.5570	0.0865	175.9505	0.00568	15.2245	0.06568	193.1732	12.6883
43	12.2505	0.0816	187.5076	0.00533	15.3062	0.06533	196.6017	12.8446
44	12.9855	0.0770	199.7580	0.00501	15.3832	0.06501	199.9130	12.9956
45	13.7646	0.0727	212.7435	0.00470	15.4558	0.06470	203.1096	13.1413
46	14.5905	0.0685	226.5081	0.00441	15.5244	0.06441	206.1938	13.2819
47	15.4659	0.0647	241.0986	0.00415	15.5890	0.06415	209.1681	13.4177
48	16.3939	0.0610	256.5645	0.00390	15.6500	0.06390	212.0351	13.5485
50	18.4202	0.0543	290.3359	0.00344	15.7619	0.06344	217.4574	13.7964
55	24.6503	0.0406	394.1720	0.00254	15.9905	0.06254	229.3222	14.3411
60	32.9877	0.0303	533.1282	0.00188	16.1614	0.06188	239.0428	14.7909
65	44.1450	0.0227	719.0829	0.00139	16.2891	0.06139	246.9450	15.1601
70	59.0759	0.0169	967.9322	0.00103	16.3845	0.06103	253.3271	15.4613
72	66.3777	0.0151	1089.6286	0.00092	16.4156	0.06092	255.5146	15.5654
75	79.0569	0.0126	1300.9487	0.00077	16.4558	0.06077	258.4527	15.7058
80	105.7960	0.0095	1746.5999	0.00057	16.5091	0.06057	262.5493	15.9033
84	133.5650	0.0075	2209.4167	0.00045	16.5419	0.06045	265.2163	16.0330
85	141.5789	0.0071	2342.9817	0.00043	16.5489	0.06043	265.8096	16.0620
96	268.7590	0.0037	4462.6505	0.00022	16.6047	0.06022	270.7909	16.3081
100	339.3021	0.0029	5638.3681	0.00018	16.6175	0.06018	272.0471	16.3711

i= 7%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0700	0.9346	1.0000	1.00000	0.9346	1.07000	0.0000	0.0000
2	1.1449	0.8734	2.0700	0.48309	1.8080	0.55309	0.8734	0.4831
3	1.2250	0.8163	3.2149	0.31105	2.6243	0.38105	2.5060	0.9549
4	1.3108	0.7629	4.4399	0.22523	3.3872	0.29523	4.7947	1.4155
5	1.4026	0.7130	5.7507	0.17389	4.1002	0.24389	7.6467	1.8650
6	1.5007	0.6663	7.1533	0.13980	4.7665	0.20980	10.9784	2.3032
7	1.6058	0.6227	8.6540	0.11555	5.3893	0.18555	14.7149	2.7304
8	1.7182	0.5820	10.2598	0.09747	5.9713	0.16747	18.7889	3.1465
9	1.8385	0.5439	11.9780	0.08349	6.5152	0.15349	23.1404	3.5517
10	1.9672	0.5083	13.8164	0.07238	7.0236	0.14238	27.7156	3.9461
11	2.1049	0.4751	15.7836	0.06336	7.4987	0.13336	32.4665	4.3296
12	2.2522	0.4440	17.8885	0.05590	7.9427	0.12590	37.3506	4.7025
13	2.4098	0.4150	20.1406	0.04965	8.3577	0.11965	42.3302	5.0648
14	2.5785	0.3878	22.5505	0.04434	8.7455	0.11434	47.3718	5.4167
15	2.7590	0.3624	25.1290	0.03979	9.1079	0.10979	52.4461	5.7583
16	2.9522	0.3387	27.8881	0.03586	9.4466	0.10586	57.5271	6.0897
17	3.1588	0.3166	30.8402	0.03243	9.7632	0.10243	62.5923	6.4110
18	3.3799	0.2959	33.9990	0.02941	10.0591	0.09941	67.6219	6.7225
19	3.6165	0.2765	37.3790	0.02675	10.3356	0.09675	72.5991	7.0242
20	3.8697	0.2584	40.9955	0.02439	10.5940	0.09439	77.5091	7.3163
21	4.1406	0.2415	44.8652	0.02229	10.8355	0.09229	82.3393	7.5990
22	4.4304	0.2257	49.0057	0.02041	11.0612	0.09041	87.0793	7.8725
23	4.7405	0.2109	53.4361	0.01871	11.2722	0.08871	91.7201	8.1369
24	5.0724	0.1971	58.1767	0.01719	11.4693	0.08719	96.2545	8.3923
25	5.4274	0.1842	63.2490	0.01581	11.6536	0.08581	100.6765	8.6391
26	5.8074	0.1722	68.6765	0.01456	11.8258	0.08456	104.9814	8.8773
27	6.2139	0.1609	74.4838	0.01343	11.9867	0.08343	109.1656	9.1072
28	6.6488	0.1504	80.6977	0.01239	12.1371	0.08239	113.2264	9.3289
29	7.1143	0.1406	87.3465	0.01145	12.2777	0.08145	117.1622	9.5427
30	7.6123	0.1314	94.4608	0.01059	12.4090	0.08059	120.9718	9.7487
31	8.1451	0.1228	102.0730	0.00980	12.5318	0.07980	124.6550	9.9471
32	8.7153	0.1147	110.2182	0.00907	12.6466	0.07907	128.2120	10.1381
33	9.3253	0.1072	118.9334	0.00841	12.7538	0.07841	131.6435	10.3219
34	9.9781	0.1002	128.2588	0.00780	12.8540	0.07780	134.9507	10.4987
35	10.6766	0.0937	138.2369	0.00723	12.9477	0.07723	138.1353	10.6687
36	11.4239	0.0875	148.9135	0.00672	13.0352	0.07672	141.1990	10.8321
37	12.2236	0.0818	160.3374	0.00624	13.1170	0.07624	144.1441	10.9891
38	13.0793	0.0765	172.5610	0.00580	13.1935	0.07580	146.9730	11.1398
39	13.9948	0.0715	185.6403	0.00539	13.2649	0.07539	149.6883	11.2845
40	14.9745	0.0668	199.6351	0.00501	13.3317	0.07501	152.2928	11.4233
41	16.0227	0.0624	214.6096	0.00466	13.3941	0.07466	154.7892	11.5565
42	17.1443	0.0583	230.6322	0.00434	13.4524	0.07434	157.1807	11.6842
43	18.3444	0.0545	247.7765	0.00404	13.5070	0.07404	159.4702	11.8065
44	19.6285	0.0509	266.1209	0.00376	13.5579	0.07376	161.6609	11.9237
45	21.0025	0.0476	285.7493	0.00350	13.6055	0.07350	163.7559	12.0360
46	22.4726	0.0445	306.7518	0.00326	13.6500	0.07326	165.7584	12.1435
47	24.0457	0.0416	329.2244	0.00304	13.6916	0.07304	167.6714	12.2463
48	25.7289	0.0389	353.2701	0.00283	13.7305	0.07283	169.4981	12.3447
50	29.4570	0.0339	406.5289	0.00246	13.8007	0.07246	172.9051	12.5287
55	41.3150	0.0242	575.9286	0.00174	13.9399	0.07174	180.1243	12.9215
60	57.9464	0.0173	813.5204	0.00123	14.0392	0.07123	185.7677	13.2321
65	81.2729	0.0123	1146.7552	0.00087	14.1099	0.07087	190.1452	13.4760
70	113.9894	0.0088	1614.1342	0.00062	14.1604	0.07062	193.5185	13.6662
72	130.5065	0.0077	1850.0922	0.00054	14.1763	0.07054	194.6365	13.7298
75	159.8760	0.0063	2269.6574	0.00044	14.1964	0.07044	196.1035	13.8136
80	224.2344	0.0045	3189.0627	0.00031	14.2220	0.07031	198.0748	13.9273
84	293.9255	0.0034	4184.6506	0.00024	14.2371	0.07024	199.3046	13.9990
85	314.5003	0.0032	4478.5761	0.00022	14.2403	0.07022	199.5717	14.0146
96	661.9766	0.0015	9442.5233	0.00011	14.2641	0.07011	201.7016	14.1405
100	867.7163	0.0012	12381.6618	0.00008	14.2693	0.07008	202.2001	14.1703

i= 8%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0800	0.9259	1.0000	1.00000	0.9259	1.08000	0.0000	0.0000
2	1.1664	0.8573	2.0800	0.48077	1.7833	0.56077	0.8573	0.4808
3	1.2597	0.7938	3.2464	0.30803	2.5771	0.38803	2.4450	0.9487
4	1.3605	0.7350	4.5061	0.22192	3.3121	0.30192	4.6501	1.4040
5	1.4693	0.6806	5.8666	0.17046	3.9927	0.25046	7.3724	1.8465
6	1.5869	0.6302	7.3359	0.13632	4.6229	0.21632	10.5233	2.2763
7	1.7138	0.5835	8.9228	0.11207	5.2064	0.19207	14.0242	2.6937
8	1.8509	0.5403	10.6366	0.09401	5.7466	0.17401	17.8061	3.0985
9	1.9990	0.5002	12.4876	0.08008	6.2469	0.16008	21.8081	3.4910
10	2.1589	0.4632	14.4866	0.06903	6.7101	0.14903	25.9768	3.8713
11	2.3316	0.4289	16.6455	0.06008	7.1390	0.14008	30.2657	4.2395
12	2.5182	0.3971	18.9771	0.05270	7.5361	0.13270	34.6339	4.5957
13	2.7196	0.3677	21.4953	0.04652	7.9038	0.12652	39.0463	4.9402
14	2.9372	0.3405	24.2149	0.04130	8.2442	0.12130	43.4723	5.2731
15	3.1722	0.3152	27.1521	0.03683	8.5595	0.11683	47.8857	5.5945
16	3.4259	0.2919	30.3243	0.03298	8.8514	0.11298	52.2640	5.9046
17	3.7000	0.2703	33.7502	0.02963	9.1216	0.10963	56.5883	6.2037
18	3.9960	0.2502	37.4502	0.02670	9.3719	0.10670	60.8426	6.4920
19	4.3157	0.2317	41.4463	0.02413	9.6036	0.10413	65.0134	6.7697
20	4.6610	0.2145	45.7620	0.02185	9.8181	0.10185	69.0898	7.0369
21	5.0338	0.1987	50.4229	0.01983	10.0168	0.09983	73.0629	7.2940
22	5.4365	0.1839	55.4568	0.01803	10.2007	0.09803	76.9257	7.5412
23	5.8715	0.1703	60.8933	0.01642	10.3711	0.09642	80.6726	7.7786
24	6.3412	0.1577	66.7648	0.01498	10.5288	0.09498	84.2997	8.0066
25	6.8485	0.1460	73.1059	0.01368	10.6748	0.09368	87.8041	8.2254
26	7.3964	0.1352	79.9544	0.01251	10.8100	0.09251	91.1842	8.4352
27	7.9881	0.1252	87.3508	0.01145	10.9352	0.09145	94.4390	8.6363
28	8.6271	0.1159	95.3388	0.01049	11.0511	0.09049	97.5687	8.8289
29	9.3173	0.1073	103.9659	0.00962	11.1584	0.08962	100.5738	9.0133
30	10.0627	0.0994	113.2832	0.00883	11.2578	0.08883	103.4558	9.1897
31	10.8677	0.0920	123.3459	0.00811	11.3498	0.08811	106.2163	9.3584
32	11.7371	0.0852	134.2135	0.00745	11.4350	0.08745	108.8575	9.5197
33	12.6760	0.0789	145.9506	0.00685	11.5139	0.08685	111.3819	9.6737
34	13.6901	0.0730	158.6267	0.00630	11.5869	0.08630	113.7924	9.8208
35	14.7853	0.0676	172.3168	0.00580	11.6546	0.08580	116.0920	9.9611
36	15.9682	0.0626	187.1021	0.00534	11.7172	0.08534	118.2839	10.0949
37	17.2456	0.0580	203.0703	0.00492	11.7752	0.08492	120.3713	10.2225
38	18.6253	0.0537	220.3159	0.00454	11.8289	0.08454	122.3579	10.3440
39	20.1153	0.0497	238.9412	0.00419	11.8786	0.08419	124.2470	10.4597
40	21.7245	0.0460	259.0565	0.00386	11.9246	0.08386	126.0422	10.5699
41	23.4625	0.0426	280.7810	0.00356	11.9672	0.08356	127.7470	10.6747
42	25.3395	0.0395	304.2435	0.00329	12.0067	0.08329	129.3651	10.7744
43	27.3666	0.0365	329.5830	0.00303	12.0432	0.08303	130.8998	10.8692
44	29.5560	0.0338	356.9496	0.00280	12.0771	0.08280	132.3547	10.9592
45	31.9204	0.0313	386.5056	0.00259	12.1084	0.08259	133.7331	11.0447
46	34.4741	0.0290	418.4261	0.00239	12.1374	0.08239	135.0384	11.1258
47	37.2320	0.0269	452.9002	0.00221	12.1643	0.08221	136.2739	11.2028
48	40.2106	0.0249	490.1322	0.00204	12.1891	0.08204	137.4428	11.2758
50	46.9016	0.0213	573.7702	0.00174	12.2335	0.08174	139.5928	11.4107
55	68.9139	0.0145	848.9232	0.00118	12.3186	0.08118	144.0065	11.6902
60	101.2571	0.0099	1253.2133	0.00080	12.3766	0.08080	147.3000	11.9015
65	148.7798	0.0067	1847.2481	0.00054	12.4160	0.08054	149.7387	12.0602
70	218.6064	0.0046	2720.0801	0.00037	12.4428	0.08037	151.5326	12.1783
72	254.9825	0.0039	3174.7814	0.00031	12.4510	0.08031	152.1076	12.2165
75	321.2045	0.0031	4002.5566	0.00025	12.4611	0.08025	152.8448	12.2658
80	471.9548	0.0021	5886.9354	0.00017	12.4735	0.08017	153.8001	12.3301
84	642.0893	0.0016	8013.6168	0.00012	12.4805	0.08012	154.3714	12.3690
85	693.4565	0.0014	8655.7061	0.00012	12.4820	0.08012	154.4925	12.3772
96	1616.8902	0.0006	20198.6274	0.00005	12.4923	0.08005	155.4112	12.4406
100	2199.7613	0.0005	27484.5157	0.00004	12.4943	0.08004	155.6107	12.4545

i= 9%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.0900	0.9174	1.0000	1.00000	0.9174	1.09000	0.0000	0.0000
2	1.1881	0.8417	2.0900	0.47847	1.7591	0.56847	0.8417	0.4785
3	1.2950	0.7722	3.2781	0.30505	2.5313	0.39505	2.3860	0.9426
4	1.4116	0.7084	4.5731	0.21867	3.2397	0.30867	4.5113	1.3925
5	1.5386	0.6499	5.9847	0.16709	3.8897	0.25709	7.1110	1.8282
6	1.6771	0.5963	7.5233	0.13292	4.4859	0.22292	10.0924	2.2498
7	1.8280	0.5470	9.2004	0.10869	5.0330	0.19869	13.3746	2.6574
8	1.9926	0.5019	11.0285	0.09067	5.5348	0.18067	16.8877	3.0512
9	2.1719	0.4604	13.0210	0.07680	5.9952	0.16680	20.5711	3.4312
10	2.3674	0.4224	15.1929	0.06582	6.4177	0.15582	24.3728	3.7978
11	2.5804	0.3875	17.5603	0.05695	6.8052	0.14695	28.2481	4.1510
12	2.8127	0.3555	20.1407	0.04965	7.1607	0.13965	32.1590	4.4910
13	3.0658	0.3262	22.9534	0.04357	7.4869	0.13357	36.0731	4.8182
14	3.3417	0.2992	26.0192	0.03843	7.7862	0.12843	39.9633	5.1326
15	3.6425	0.2745	29.3609	0.03406	8.0607	0.12406	43.8069	5.4346
16	3.9703	0.2519	33.0034	0.03030	8.3126	0.12030	47.5849	5.7245
17	4.3276	0.2311	36.9737	0.02705	8.5436	0.11705	51.2821	6.0024
18	4.7171	0.2120	41.3013	0.02421	8.7556	0.11421	54.8860	6.2687
19	5.1417	0.1945	46.0185	0.02173	8.9501	0.11173	58.3868	6.5236
20	5.6044	0.1784	51.1601	0.01955	9.1285	0.10955	61.7770	6.7674
21	6.1088	0.1637	56.7645	0.01762	9.2922	0.10762	65.0509	7.0006
22	6.6586	0.1502	62.8733	0.01590	9.4424	0.10590	68.2048	7.2232
23	7.2579	0.1378	69.5319	0.01438	9.5802	0.10438	71.2359	7.4357
24	7.9111	0.1264	76.7898	0.01302	9.7066	0.10302	74.1433	7.6384
25	8.6231	0.1160	84.7009	0.01181	9.8226	0.10181	76.9265	7.8316
26	9.3992	0.1064	93.3240	0.01072	9.9290	0.10072	79.5863	8.0156
27	10.2451	0.0976	102.7231	0.00973	10.0266	0.09973	82.1241	8.1906
28	11.1671	0.0895	112.9682	0.00885	10.1161	0.09885	84.5419	8.3571
29	12.1722	0.0822	124.1354	0.00806	10.1983	0.09806	86.8422	8.5154
30	13.2677	0.0754	136.3075	0.00734	10.2737	0.09734	89.0280	8.6657
31	14.4618	0.0691	149.5752	0.00669	10.3428	0.09669	91.1024	8.8083
32	15.7633	0.0634	164.0370	0.00610	10.4062	0.09610	93.0690	8.9436
33	17.1820	0.0582	179.8003	0.00556	10.4644	0.09556	94.9314	9.0718
34	18.7284	0.0534	196.9823	0.00508	10.5178	0.09508	96.6935	9.1933
35	20.4140	0.0490	215.7108	0.00464	10.5668	0.09464	98.3590	9.3083
36	22.2512	0.0449	236.1247	0.00424	10.6118	0.09424	99.9319	9.4171
37	24.2538	0.0412	258.3759	0.00387	10.6530	0.09387	101.4162	9.5200
38	26.4367	0.0378	282.6298	0.00354	10.6908	0.09354	102.8158	9.6172
39	28.8160	0.0347	309.0665	0.00324	10.7255	0.09324	104.1345	9.7090
40	31.4094	0.0318	337.8824	0.00296	10.7574	0.09296	105.3762	9.7957
41	34.2363	0.0292	369.2919	0.00271	10.7866	0.09271	106.5445	9.8775
42	37.3175	0.0268	403.5281	0.00248	10.8134	0.09248	107.6432	9.9546
43	40.6761	0.0246	440.8457	0.00227	10.8380	0.09227	108.6758	10.0273
44	44.3370	0.0226	481.5218	0.00208	10.8605	0.09208	109.6456	10.0958
45	48.3273	0.0207	525.8587	0.00190	10.8812	0.09190	110.5561	10.1603
46	52.6767	0.0190	574.1860	0.00174	10.9002	0.09174	111.4103	10.2210
47	57.4176	0.0174	626.8628	0.00160	10.9176	0.09160	112.2115	10.2780
48	62.5852	0.0160	684.2804	0.00146	10.9336	0.09146	112.9625	10.3317
50	74.3575	0.0134	815.0836	0.00123	10.9617	0.09123	114.3251	10.4295
55	114.4083	0.0087	1260.0918	0.00079	11.0140	0.09079	117.0362	10.6261
60	176.0313	0.0057	1944.7921	0.00051	11.0480	0.09051	118.9683	10.7683
65	270.8460	0.0037	2998.2885	0.00033	11.0701	0.09033	120.3344	10.8702
70	416.7301	0.0024	4619.2232	0.00022	11.0844	0.09022	121.2942	10.9427
72	495.1170	0.0020	5490.1891	0.00018	11.0887	0.09018	121.5917	10.9654
75	641.1909	0.0016	7113.2321	0.00014	11.0938	0.09014	121.9646	10.9940
80	986.5517	0.0010	10950.5741	0.00009	11.0998	0.09009	122.4306	11.0299
84	1392.5982	0.0007	15462.2021	0.00006	11.1031	0.09006	122.6979	11.0507
85	1517.9320	0.0007	16854.8003	0.00006	11.1038	0.09006	122.7533	11.0551
96	3916.9119	0.0003	43510.1321	0.00002	11.1083	0.09002	123.1529	11.0866
100	5529.0408	0.0002	61422.6755	0.00002	11.1091	0.09002	123.2335	11.0930

i= 10%

ING. JAVIER VILLARREAL POSADA

n	F/P	P/F	F/A	A/F	P/A	A/P	P/G	A/G
1	1.1000	0.9091	1.0000	1.00000	0.9091	1.10000	0.0000	0.0000
2	1.2100	0.8264	2.1000	0.47619	1.7355	0.57619	0.8264	0.4762
3	1.3310	0.7513	3.3100	0.30211	2.4869	0.40211	2.3291	0.9366
4	1.4641	0.6830	4.6410	0.21547	3.1699	0.31547	4.3781	1.3812
5	1.6105	0.6209	6.1051	0.16380	3.7908	0.26380	6.8618	1.8101
6	1.7716	0.5645	7.7156	0.12961	4.3553	0.22961	9.6842	2.2236
7	1.9487	0.5132	9.4872	0.10541	4.8684	0.20541	12.7631	2.6216
8	2.1436	0.4665	11.4359	0.08744	5.3349	0.18744	16.0287	3.0045
9	2.3579	0.4241	13.5795	0.07364	5.7590	0.17364	19.4215	3.3724
10	2.5937	0.3855	15.9374	0.06275	6.1446	0.16275	22.8913	3.7255
11	2.8531	0.3505	18.5312	0.05396	6.4951	0.15396	26.3963	4.0641
12	3.1384	0.3186	21.3843	0.04676	6.8137	0.14676	29.9012	4.3884
13	3.4523	0.2897	24.5227	0.04078	7.1034	0.14078	33.3772	4.6988
14	3.7975	0.2633	27.9750	0.03575	7.3667	0.13575	36.8005	4.9955
15	4.1772	0.2394	31.7725	0.03147	7.6061	0.13147	40.1520	5.2789
16	4.5950	0.2176	35.9497	0.02782	7.8237	0.12782	43.4164	5.5493
17	5.0545	0.1978	40.5447	0.02466	8.0216	0.12466	46.5819	5.8071
18	5.5599	0.1799	45.5992	0.02193	8.2014	0.12193	49.6395	6.0526
19	6.1159	0.1635	51.1591	0.01955	8.3649	0.11955	52.5827	6.2861
20	6.7275	0.1486	57.2750	0.01746	8.5136	0.11746	55.4069	6.5081
21	7.4002	0.1351	64.0025	0.01562	8.6487	0.11562	58.1095	6.7189
22	8.1403	0.1228	71.4027	0.01401	8.7715	0.11401	60.6893	6.9189
23	8.9543	0.1117	79.5430	0.01257	8.8832	0.11257	63.1462	7.1085
24	9.8497	0.1015	88.4973	0.01130	8.9847	0.11130	65.4813	7.2881
25	10.8347	0.0923	98.3471	0.01017	9.0770	0.11017	67.6964	7.4580
26	11.9182	0.0839	109.1818	0.00916	9.1609	0.10916	69.7940	7.6186
27	13.1100	0.0763	121.0999	0.00826	9.2372	0.10826	71.7773	7.7704
28	14.4210	0.0693	134.2099	0.00745	9.3066	0.10745	73.6495	7.9137
29	15.8631	0.0630	148.6309	0.00673	9.3696	0.10673	75.4146	8.0489
30	17.4494	0.0573	164.4940	0.00608	9.4269	0.10608	77.0766	8.1762
31	19.1943	0.0521	181.9434	0.00550	9.4790	0.10550	78.6395	8.2962
32	21.1138	0.0474	201.1378	0.00497	9.5264	0.10497	80.1078	8.4091
33	23.2252	0.0431	222.2515	0.00450	9.5694	0.10450	81.4856	8.5152
34	25.5477	0.0391	245.4767	0.00407	9.6086	0.10407	82.7773	8.6149
35	28.1024	0.0356	271.0244	0.00369	9.6442	0.10369	83.9872	8.7086
36	30.9127	0.0323	299.1268	0.00334	9.6765	0.10334	85.1194	8.7965
37	34.0039	0.0294	330.0395	0.00303	9.7059	0.10303	86.1781	8.8789
38	37.4043	0.0267	364.0434	0.00275	9.7327	0.10275	87.1673	8.9562
39	41.1448	0.0243	401.4478	0.00249	9.7570	0.10249	88.0908	9.0285
40	45.2593	0.0221	442.5926	0.00226	9.7791	0.10226	88.9525	9.0962
41	49.7852	0.0201	487.8518	0.00205	9.7991	0.10205	89.7560	9.1596
42	54.7637	0.0183	537.6370	0.00186	9.8174	0.10186	90.5047	9.2188
43	60.2401	0.0166	592.4007	0.00169	9.8340	0.10169	91.2019	9.2741
44	66.2641	0.0151	652.6408	0.00153	9.8491	0.10153	91.8508	9.3258
45	72.8905	0.0137	718.9048	0.00139	9.8628	0.10139	92.4544	9.3740
46	80.1795	0.0125	791.7953	0.00126	9.8753	0.10126	93.0157	9.4190
47	88.1975	0.0113	871.9749	0.00115	9.8866	0.10115	93.5372	9.4610
48	97.0172	0.0103	960.1723	0.00104	9.8969	0.10104	94.0217	9.5001
50	117.3909	0.0085	1163.9085	0.00086	9.9148	0.10086	94.8889	9.5704
55	189.0591	0.0053	1880.5914	0.00053	9.9471	0.10053	96.5619	9.7075
60	304.4816	0.0033	3034.8164	0.00033	9.9672	0.10033	97.7010	9.8023
65	490.3707	0.0020	4893.7073	0.00020	9.9796	0.10020	98.4705	9.8672
70	789.7470	0.0013	7887.4696	0.00013	9.9873	0.10013	98.9870	9.9113
72	955.5938	0.0010	9545.9382	0.00010	9.9895	0.10010	99.1419	9.9246
75	1271.8954	0.0008	12708.9537	0.00008	9.9921	0.10008	99.3317	9.9410
80	2048.4002	0.0005	20474.0021	0.00005	9.9951	0.10005	99.5606	9.9609
84	2999.0628	0.0003	29980.6275	0.00003	9.9967	0.10003	99.6866	9.9720
85	3298.9690	0.0003	32979.6903	0.00003	9.9970	0.10003	99.7120	9.9742
96	9412.3437	0.0001	94113.4365	0.00001	9.9989	0.10001	99.8874	9.9898
100	13780.6123	0.0001	137796.123	0.00001	9.9993	0.10001	99.9202	9.9927