

Present Value of \$1 Stream of Payments										
	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%
1	0.980	0.971	0.962	0.952	0.943	0.935	0.926	0.917	0.909	0.901
2	1.942	1.913	1.886	1.859	1.833	1.808	1.783	1.759	1.736	1.713
3	2.884	2.829	2.775	2.723	2.673	2.624	2.577	2.531	2.487	2.444
4	3.808	3.717	3.630	3.546	3.465	3.387	3.312	3.240	3.170	3.102
5	4.713	4.580	4.452	4.329	4.212	4.100	3.993	3.890	3.791	3.696
6	5.601	5.417	5.242	5.076	4.917	4.767	4.623	4.486	4.355	4.231
7	6.472	6.230	6.002	5.786	5.582	5.389	5.206	5.033	4.868	4.712
8	7.325	7.020	6.733	6.463	6.210	5.971	5.747	5.535	5.335	5.146
9	8.162	7.786	7.435	7.108	6.802	6.515	6.247	5.995	5.759	5.537
10	8.983	8.530	8.111	7.722	7.360	7.024	6.710	6.418	6.145	5.889
11	9.787	9.253	8.760	8.306	7.887	7.499	7.139	6.805	6.495	6.207
12	10.575	9.954	9.385	8.863	8.384	7.943	7.536	7.161	6.814	6.492
13	11.348	10.635	9.986	9.394	8.853	8.358	7.904	7.487	7.103	6.750
14	12.106	11.296	10.563	9.899	9.295	8.745	8.244	7.786	7.367	6.982
15	12.849	11.938	11.118	10.380	9.712	9.108	8.559	8.061	7.606	7.191
16	13.578	12.561	11.652	10.838	10.106	9.447	8.851	8.313	7.824	7.379
17	14.292	13.166	12.166	11.274	10.477	9.763	9.122	8.544	8.022	7.549
18	14.992	13.754	12.659	11.690	10.828	10.059	9.372	8.756	8.201	7.702
19	15.678	14.324	13.134	12.085	11.158	10.336	9.604	8.950	8.365	7.839
20	16.351	14.877	13.590	12.462	11.470	10.594	9.818	9.129	8.514	7.963
21	17.011	15.415	14.029	12.821	11.764	10.836	10.017	9.292	8.649	8.075
22	17.658	15.937	14.451	13.163	12.042	11.061	10.201	9.442	8.772	8.176
23	18.292	16.444	14.857	13.489	12.303	11.272	10.371	9.580	8.883	8.266
24	18.914	16.936	15.247	13.799	12.550	11.469	10.529	9.707	8.985	8.348
25	19.523	17.413	15.622	14.094	12.783	11.654	10.675	9.823	9.077	8.422
26	20.121	17.877	15.983	14.375	13.003	11.826	10.810	9.929	9.161	8.488
27	20.707	18.327	16.330	14.643	13.211	11.987	10.935	10.027	9.237	8.548
28	21.281	18.764	16.663	14.898	13.406	12.137	11.051	10.116	9.307	8.602
29	21.844	19.188	16.984	15.141	13.591	12.278	11.158	10.198	9.370	8.650
30	22.396	19.600	17.292	15.372	13.765	12.409	11.258	10.274	9.427	8.694

We use this table in chapter 10 to compute the present value of the yearly interest payments.

Present Value of \$1 Lump Sum Principal										
	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%
1	0.980	0.971	0.962	0.952	0.943	0.935	0.926	0.917	0.909	0.901
2	0.961	0.943	0.925	0.907	0.890	0.873	0.857	0.842	0.826	0.812
3	0.942	0.915	0.889	0.864	0.840	0.816	0.794	0.772	0.751	0.731
4	0.924	0.888	0.855	0.823	0.792	0.763	0.735	0.708	0.683	0.659
5	0.906	0.863	0.822	0.784	0.747	0.713	0.681	0.650	0.621	0.593
6	0.888	0.837	0.790	0.746	0.705	0.666	0.630	0.596	0.564	0.535
7	0.871	0.813	0.760	0.711	0.665	0.623	0.583	0.547	0.513	0.482
8	0.853	0.789	0.731	0.677	0.627	0.582	0.540	0.502	0.467	0.434
9	0.837	0.766	0.703	0.645	0.592	0.544	0.500	0.460	0.424	0.391
10	0.820	0.744	0.676	0.614	0.558	0.508	0.463	0.422	0.386	0.352
11	0.804	0.722	0.650	0.585	0.527	0.475	0.429	0.388	0.350	0.317
12	0.788	0.701	0.625	0.557	0.497	0.444	0.397	0.356	0.319	0.286
13	0.773	0.681	0.601	0.530	0.469	0.415	0.368	0.326	0.290	0.258
14	0.758	0.661	0.577	0.505	0.442	0.388	0.340	0.299	0.263	0.232
15	0.743	0.642	0.555	0.481	0.417	0.362	0.315	0.275	0.239	0.209
16	0.728	0.623	0.534	0.458	0.394	0.339	0.292	0.252	0.218	0.188
17	0.714	0.605	0.513	0.436	0.371	0.317	0.270	0.231	0.198	0.170
18	0.700	0.587	0.494	0.416	0.350	0.296	0.250	0.212	0.180	0.153
19	0.686	0.570	0.475	0.396	0.331	0.277	0.232	0.194	0.164	0.138
20	0.673	0.554	0.456	0.377	0.312	0.258	0.215	0.178	0.149	0.124
21	0.660	0.538	0.439	0.359	0.294	0.242	0.199	0.164	0.135	0.112
22	0.647	0.522	0.422	0.342	0.278	0.226	0.184	0.150	0.123	0.101
23	0.634	0.507	0.406	0.326	0.262	0.211	0.170	0.138	0.112	0.091
24	0.622	0.492	0.390	0.310	0.247	0.197	0.158	0.126	0.102	0.082
25	0.610	0.478	0.375	0.295	0.233	0.184	0.146	0.116	0.092	0.074
26	0.598	0.464	0.361	0.281	0.220	0.172	0.135	0.106	0.084	0.066
27	0.586	0.450	0.347	0.268	0.207	0.161	0.125	0.098	0.076	0.060
28	0.574	0.437	0.333	0.255	0.196	0.150	0.116	0.090	0.069	0.054
29	0.563	0.424	0.321	0.243	0.185	0.141	0.107	0.082	0.063	0.048
30	0.552	0.412	0.308	0.231	0.174	0.131	0.099	0.075	0.057	0.044

We use this table in chapter 10 to compute the present value of the single principal repayment.
(It is the same table we used in Chapter 6 to compute the Discounted Cash Flow Model problems.)

Example problem from chapter 10 worksheet #1:

4) Using annual compounding, find the prices for the following bonds

a) 9%, 10-year bond priced to yield 7%

bond price = present value (yearly interest income) + present value (principal repayment)

$$= \$90 * 7.024 + \$1,000 * 0.508$$

(See shaded cells above)

$$= \$632.16 + \$508$$

$$= \$1,140.16$$

a) 5%, 20-year bond priced to yield 8%

bond price = present value (yearly interest income) + present value (principal repayment)

$$= \$50 * 9.818 + \$1,000 * 0.215$$

(See shaded cells above)

$$= \$490.90 + \$215$$

$$= \$705.90$$