

$$S_1^n = \sum_{j=1}^n \frac{1}{(1+i)^j}$$

| | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 |
|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 0.9901 | 0.9852 | 0.9804 | 0.9756 | 0.9709 | 0.9662 | 0.9615 | 0.9569 | 0.9524 | 0.9479 | 0.9434 | 0.9390 | 0.9346 | 0.9302 | 0.9259 |
| 2 | 1.9704 | 1.9559 | 1.9416 | 1.9274 | 1.9135 | 1.8997 | 1.8861 | 1.8727 | 1.8594 | 1.8463 | 1.8334 | 1.8206 | 1.8080 | 1.7956 | 1.7833 |
| 3 | 2.9410 | 2.9122 | 2.8839 | 2.8560 | 2.8286 | 2.8016 | 2.7751 | 2.7490 | 2.7232 | 2.6979 | 2.6730 | 2.6485 | 2.6243 | 2.6005 | 2.5771 |
| 4 | 3.9020 | 3.8544 | 3.8077 | 3.7620 | 3.7171 | 3.6731 | 3.6299 | 3.5875 | 3.5460 | 3.5052 | 3.4651 | 3.4258 | 3.3872 | 3.3493 | 3.3121 |
| 5 | 4.8534 | 4.7826 | 4.7135 | 4.6458 | 4.5797 | 4.5151 | 4.4518 | 4.3900 | 4.3295 | 4.2703 | 4.2124 | 4.1557 | 4.1002 | 4.0459 | 3.9927 |
| 6 | 5.7955 | 5.6972 | 5.6014 | 5.5081 | 5.4172 | 5.3286 | 5.2421 | 5.1579 | 5.0757 | 4.9955 | 4.9173 | 4.8410 | 4.7665 | 4.6938 | 4.6229 |
| 7 | 6.7282 | 6.5982 | 6.4720 | 6.3494 | 6.2303 | 6.1145 | 6.0021 | 5.8927 | 5.7864 | 5.6830 | 5.5824 | 5.4845 | 5.3893 | 5.2966 | 5.2064 |
| 8 | 7.6517 | 7.4859 | 7.3255 | 7.1701 | 7.0197 | 6.8740 | 6.7327 | 6.5959 | 6.4632 | 6.3346 | 6.2098 | 6.0888 | 5.9713 | 5.8573 | 5.7466 |
| 9 | 8.5660 | 8.3605 | 8.1622 | 7.9709 | 7.7861 | 7.6077 | 7.4353 | 7.2688 | 7.1078 | 6.9522 | 6.8017 | 6.6561 | 6.5152 | 6.3789 | 6.2469 |
| 10 | 9.4713 | 9.2222 | 8.9826 | 8.7521 | 8.5302 | 8.3166 | 8.1109 | 7.9127 | 7.7217 | 7.5376 | 7.3601 | 7.1888 | 7.0236 | 6.8641 | 6.7101 |
| 11 | 10.3676 | 10.0711 | 9.7868 | 9.5142 | 9.2526 | 9.0016 | 8.7605 | 8.5289 | 8.3064 | 8.0925 | 7.8869 | 7.6890 | 7.4987 | 7.3154 | 7.1390 |
| 12 | 11.2551 | 10.9075 | 10.5753 | 10.2578 | 9.9540 | 9.6633 | 9.3851 | 9.1186 | 8.8633 | 8.6185 | 8.3838 | 8.1587 | 7.9427 | 7.7353 | 7.5361 |
| 13 | 12.1337 | 11.7315 | 11.3484 | 10.9832 | 10.6350 | 10.3027 | 9.9856 | 9.6829 | 9.3936 | 9.1171 | 8.8527 | 8.5997 | 8.3577 | 8.1258 | 7.9038 |
| 14 | 13.0037 | 12.5434 | 12.1062 | 11.6909 | 11.2961 | 10.9205 | 10.5631 | 10.2228 | 9.8986 | 9.5896 | 9.2950 | 9.0138 | 8.7455 | 8.4892 | 8.2442 |
| 15 | 13.8651 | 13.3432 | 12.8493 | 12.3814 | 11.9379 | 11.5174 | 11.1184 | 10.7395 | 10.3797 | 10.0376 | 9.7122 | 9.4027 | 9.1079 | 8.8271 | 8.5595 |
| 16 | 14.7179 | 14.1313 | 13.5777 | 13.0550 | 12.5611 | 12.0941 | 11.6523 | 11.2340 | 10.8378 | 10.4622 | 10.1059 | 9.7678 | 9.4466 | 9.1415 | 8.8514 |
| 17 | 15.5623 | 14.9076 | 14.2919 | 13.7122 | 13.1661 | 12.6513 | 12.1657 | 11.7072 | 11.2741 | 10.8646 | 10.4773 | 10.1106 | 9.7632 | 9.4340 | 9.1216 |
| 18 | 16.3983 | 15.6726 | 14.9920 | 14.3534 | 13.7535 | 13.1897 | 12.6593 | 12.1600 | 11.6896 | 11.2461 | 10.8276 | 10.4325 | 10.0591 | 9.7060 | 9.3719 |
| 19 | 17.2260 | 16.4262 | 15.6785 | 14.9789 | 14.3238 | 13.7098 | 13.1339 | 12.5933 | 12.0853 | 11.6077 | 11.1581 | 10.7347 | 10.3356 | 9.9591 | 9.6036 |
| 20 | 18.0456 | 17.1686 | 16.3514 | 15.5892 | 14.8775 | 14.2124 | 13.5903 | 13.0079 | 12.4622 | 11.9504 | 11.4699 | 11.0185 | 10.5940 | 10.1945 | 9.8181 |
| 21 | 18.8570 | 17.9001 | 17.0112 | 16.1845 | 15.4150 | 14.6980 | 14.0292 | 13.4047 | 12.8212 | 12.2752 | 11.7641 | 11.2850 | 10.8355 | 10.4135 | 10.0168 |
| 22 | 19.6604 | 18.6208 | 17.6580 | 16.7654 | 15.9369 | 15.1671 | 14.4511 | 13.7844 | 13.1630 | 12.5832 | 12.0416 | 11.5352 | 11.0612 | 10.6172 | 10.2007 |
| 23 | 20.4558 | 19.3309 | 18.2922 | 17.3321 | 16.4436 | 15.6204 | 14.8568 | 14.1478 | 13.4886 | 12.8750 | 12.3034 | 11.7701 | 11.2722 | 10.8067 | 10.3711 |
| 24 | 21.2434 | 20.0304 | 18.9139 | 17.8850 | 16.9355 | 16.0584 | 15.2470 | 14.4955 | 13.7986 | 13.1517 | 12.5504 | 11.9907 | 11.4693 | 10.9830 | 10.5288 |
| 25 | 22.0232 | 20.7196 | 19.5235 | 18.4244 | 17.4131 | 16.4815 | 15.6221 | 14.8282 | 14.0939 | 13.4139 | 12.7834 | 12.1979 | 11.6536 | 11.1469 | 10.6748 |

$$S_1^n = \sum_{j=1}^n \frac{1}{(1+i)^j}$$

| | 8.5 | 9 | 9.5 | 10 | 10.5 | 11 | 11.5 | 12 | 12.5 | 13 | 13.5 | 14 | 14.5 | 15 | 15.5 | 16 |
|----|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 0.9217 | 0.9174 | 0.9132 | 0.9091 | 0.9050 | 0.9009 | 0.8969 | 0.8929 | 0.8889 | 0.8850 | 0.8811 | 0.8772 | 0.8734 | 0.8696 | 0.8658 | 0.8621 |
| 2 | 1.7711 | 1.7591 | 1.7473 | 1.7355 | 1.7240 | 1.7125 | 1.7012 | 1.6901 | 1.6790 | 1.6681 | 1.6573 | 1.6467 | 1.6361 | 1.6257 | 1.6154 | 1.6052 |
| 3 | 2.5540 | 2.5313 | 2.5089 | 2.4869 | 2.4651 | 2.4437 | 2.4226 | 2.4018 | 2.3813 | 2.3612 | 2.3413 | 2.3216 | 2.3023 | 2.2832 | 2.2644 | 2.2459 |
| 4 | 3.2756 | 3.2397 | 3.2045 | 3.1699 | 3.1359 | 3.1024 | 3.0696 | 3.0373 | 3.0056 | 2.9745 | 2.9438 | 2.9137 | 2.8841 | 2.8550 | 2.8263 | 2.7982 |
| 5 | 3.9406 | 3.8897 | 3.8397 | 3.7908 | 3.7429 | 3.6959 | 3.6499 | 3.6048 | 3.5606 | 3.5172 | 3.4747 | 3.4331 | 3.3922 | 3.3522 | 3.3129 | 3.2743 |
| 6 | 4.5536 | 4.4859 | 4.4198 | 4.3553 | 4.2922 | 4.2305 | 4.1703 | 4.1114 | 4.0538 | 3.9975 | 3.9425 | 3.8887 | 3.8360 | 3.7845 | 3.7341 | 3.6847 |
| 7 | 5.1185 | 5.0330 | 4.9496 | 4.8684 | 4.7893 | 4.7122 | 4.6370 | 4.5638 | 4.4923 | 4.4226 | 4.3546 | 4.2883 | 4.2236 | 4.1604 | 4.0988 | 4.0386 |
| 8 | 5.6392 | 5.5348 | 5.4334 | 5.3349 | 5.2392 | 5.1461 | 5.0556 | 4.9676 | 4.8820 | 4.7988 | 4.7177 | 4.6389 | 4.5621 | 4.4873 | 4.4145 | 4.3436 |
| 9 | 6.1191 | 5.9952 | 5.8753 | 5.7590 | 5.6463 | 5.5370 | 5.4311 | 5.3282 | 5.2285 | 5.1317 | 5.0377 | 4.9464 | 4.8577 | 4.7716 | 4.6879 | 4.6065 |
| 10 | 6.5613 | 6.4177 | 6.2788 | 6.1446 | 6.0148 | 5.8892 | 5.7678 | 5.6502 | 5.5364 | 5.4262 | 5.3195 | 5.2161 | 5.1159 | 5.0188 | 4.9246 | 4.8332 |
| 11 | 6.9690 | 6.8052 | 6.6473 | 6.4951 | 6.3482 | 6.2065 | 6.0697 | 5.9377 | 5.8102 | 5.6869 | 5.5679 | 5.4527 | 5.3414 | 5.2337 | 5.1295 | 5.0286 |
| 12 | 7.3447 | 7.1607 | 6.9838 | 6.8137 | 6.6500 | 6.4924 | 6.3406 | 6.1944 | 6.0535 | 5.9176 | 5.7867 | 5.6603 | 5.5383 | 5.4206 | 5.3069 | 5.1971 |
| 13 | 7.6910 | 7.4869 | 7.2912 | 7.1034 | 6.9230 | 6.7499 | 6.5835 | 6.4235 | 6.2698 | 6.1218 | 5.9794 | 5.8424 | 5.7103 | 5.5831 | 5.4605 | 5.3423 |
| 14 | 8.0101 | 7.7862 | 7.5719 | 7.3667 | 7.1702 | 6.9819 | 6.8013 | 6.6282 | 6.4620 | 6.3025 | 6.1493 | 6.0021 | 5.8606 | 5.7245 | 5.5935 | 5.4675 |
| 15 | 8.3042 | 8.0607 | 7.8282 | 7.6061 | 7.3938 | 7.1909 | 6.9967 | 6.8109 | 6.6329 | 6.4624 | 6.2989 | 6.1422 | 5.9918 | 5.8474 | 5.7087 | 5.5755 |
| 16 | 8.5753 | 8.3126 | 8.0623 | 7.8237 | 7.5962 | 7.3792 | 7.1719 | 6.9740 | 6.7848 | 6.6039 | 6.4308 | 6.2651 | 6.1063 | 5.9542 | 5.8084 | 5.6685 |
| 17 | 8.8252 | 8.5436 | 8.2760 | 8.0216 | 7.7794 | 7.5488 | 7.3291 | 7.1196 | 6.9198 | 6.7291 | 6.5469 | 6.3729 | 6.2064 | 6.0472 | 5.8947 | 5.7487 |
| 18 | 9.0555 | 8.7556 | 8.4713 | 8.2014 | 7.9451 | 7.7016 | 7.4700 | 7.2497 | 7.0398 | 6.8399 | 6.6493 | 6.4674 | 6.2938 | 6.1280 | 5.9695 | 5.8178 |
| 19 | 9.2677 | 8.9501 | 8.6496 | 8.3649 | 8.0952 | 7.8393 | 7.5964 | 7.3658 | 7.1465 | 6.9380 | 6.7395 | 6.5504 | 6.3701 | 6.1982 | 6.0342 | 5.8775 |
| 20 | 9.4633 | 9.1285 | 8.8124 | 8.5136 | 8.2309 | 7.9633 | 7.7098 | 7.4694 | 7.2414 | 7.0248 | 6.8189 | 6.6231 | 6.4368 | 6.2593 | 6.0902 | 5.9288 |
| 21 | 9.6436 | 9.2922 | 8.9611 | 8.6487 | 8.3538 | 8.0751 | 7.8115 | 7.5620 | 7.3256 | 7.1016 | 6.8889 | 6.6870 | 6.4950 | 6.3125 | 6.1387 | 5.9731 |
| 22 | 9.8098 | 9.4424 | 9.0969 | 8.7715 | 8.4649 | 8.1757 | 7.9027 | 7.6446 | 7.4006 | 7.1695 | 6.9506 | 6.7429 | 6.5459 | 6.3587 | 6.1807 | 6.0113 |
| 23 | 9.9629 | 9.5802 | 9.2209 | 8.8832 | 8.5656 | 8.2664 | 7.9845 | 7.7184 | 7.4672 | 7.2297 | 7.0049 | 6.7921 | 6.5903 | 6.3988 | 6.2170 | 6.0442 |
| 24 | 10.1041 | 9.7066 | 9.3341 | 8.9847 | 8.6566 | 8.3481 | 8.0578 | 7.7843 | 7.5264 | 7.2829 | 7.0528 | 6.8351 | 6.6291 | 6.4338 | 6.2485 | 6.0726 |
| 25 | 10.2342 | 9.8226 | 9.4376 | 9.0770 | 8.7390 | 8.4217 | 8.1236 | 7.8431 | 7.5790 | 7.3300 | 7.0950 | 6.8729 | 6.6629 | 6.4641 | 6.2758 | 6.0971 |

$$S_1^n = \sum_{j=1}^n \frac{1}{(1+i)^j}$$

| | 17 | 17.5 | 18 | 18.5 | 19 | 19.5 | 20 | 20.5 | 21 | 21.5 | 22 | 22.5 | 23 | 23.5 | 24 | 24.5 | 25 |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 0.8547 | 0.8511 | 0.8475 | 0.8439 | 0.8403 | 0.8368 | 0.8333 | 0.8299 | 0.8264 | 0.8230 | 0.8197 | 0.8163 | 0.8130 | 0.8097 | 0.8065 | 0.8032 | 0.8000 |
| 2 | 1.5852 | 1.5754 | 1.5656 | 1.5560 | 1.5465 | 1.5371 | 1.5278 | 1.5186 | 1.5095 | 1.5004 | 1.4915 | 1.4827 | 1.4740 | 1.4654 | 1.4568 | 1.4484 | 1.4400 |
| 3 | 2.2096 | 2.1918 | 2.1743 | 2.1570 | 2.1399 | 2.1231 | 2.1065 | 2.0901 | 2.0739 | 2.0580 | 2.0422 | 2.0267 | 2.0114 | 1.9962 | 1.9813 | 1.9666 | 1.9520 |
| 4 | 2.7432 | 2.7164 | 2.6901 | 2.6641 | 2.6386 | 2.6135 | 2.5887 | 2.5644 | 2.5404 | 2.5169 | 2.4936 | 2.4708 | 2.4483 | 2.4261 | 2.4043 | 2.3828 | 2.3616 |
| 5 | 3.1993 | 3.1629 | 3.1272 | 3.0921 | 3.0576 | 3.0238 | 2.9906 | 2.9580 | 2.9260 | 2.8945 | 2.8636 | 2.8333 | 2.8035 | 2.7742 | 2.7454 | 2.7171 | 2.6893 |
| 6 | 3.5892 | 3.5429 | 3.4976 | 3.4532 | 3.4098 | 3.3672 | 3.3255 | 3.2847 | 3.2446 | 3.2054 | 3.1669 | 3.1292 | 3.0923 | 3.0560 | 3.0205 | 2.9856 | 2.9514 |
| 7 | 3.9224 | 3.8663 | 3.8115 | 3.7580 | 3.7057 | 3.6546 | 3.6046 | 3.5557 | 3.5079 | 3.4612 | 3.4155 | 3.3708 | 3.3270 | 3.2842 | 3.2423 | 3.2013 | 3.1611 |
| 8 | 4.2072 | 4.1415 | 4.0776 | 4.0152 | 3.9544 | 3.8950 | 3.8372 | 3.7807 | 3.7256 | 3.6718 | 3.6193 | 3.5680 | 3.5179 | 3.4690 | 3.4212 | 3.3745 | 3.3289 |
| 9 | 4.4506 | 4.3758 | 4.3030 | 4.2322 | 4.1633 | 4.0963 | 4.0310 | 3.9674 | 3.9054 | 3.8451 | 3.7863 | 3.7290 | 3.6731 | 3.6186 | 3.5655 | 3.5137 | 3.4631 |
| 10 | 4.6586 | 4.5751 | 4.4941 | 4.4154 | 4.3389 | 4.2647 | 4.1925 | 4.1223 | 4.0541 | 3.9877 | 3.9232 | 3.8604 | 3.7993 | 3.7398 | 3.6819 | 3.6254 | 3.5705 |
| 11 | 4.8364 | 4.7448 | 4.6560 | 4.5699 | 4.4865 | 4.4056 | 4.3271 | 4.2509 | 4.1769 | 4.1051 | 4.0354 | 3.9677 | 3.9018 | 3.8379 | 3.7757 | 3.7152 | 3.6564 |
| 12 | 4.9884 | 4.8892 | 4.7932 | 4.7004 | 4.6105 | 4.5235 | 4.4392 | 4.3576 | 4.2784 | 4.2017 | 4.1274 | 4.0552 | 3.9852 | 3.9173 | 3.8514 | 3.7873 | 3.7251 |
| 13 | 5.1183 | 5.0121 | 4.9095 | 4.8104 | 4.7147 | 4.6222 | 4.5327 | 4.4461 | 4.3624 | 4.2813 | 4.2028 | 4.1267 | 4.0530 | 3.9816 | 3.9124 | 3.8452 | 3.7801 |
| 14 | 5.2293 | 5.1167 | 5.0081 | 4.9033 | 4.8023 | 4.7047 | 4.6106 | 4.5196 | 4.4317 | 4.3467 | 4.2646 | 4.1851 | 4.1082 | 4.0337 | 3.9616 | 3.8918 | 3.8241 |
| 15 | 5.3242 | 5.2057 | 5.0916 | 4.9817 | 4.8759 | 4.7738 | 4.6755 | 4.5806 | 4.4890 | 4.4006 | 4.3152 | 4.2327 | 4.1530 | 4.0759 | 4.0013 | 3.9291 | 3.8593 |
| 16 | 5.4053 | 5.2814 | 5.1624 | 5.0479 | 4.9377 | 4.8317 | 4.7296 | 4.6312 | 4.5364 | 4.4449 | 4.3567 | 4.2716 | 4.1894 | 4.1100 | 4.0333 | 3.9591 | 3.8874 |
| 17 | 5.4746 | 5.3459 | 5.2223 | 5.1037 | 4.9897 | 4.8801 | 4.7746 | 4.6732 | 4.5755 | 4.4814 | 4.3908 | 4.3034 | 4.2190 | 4.1377 | 4.0591 | 3.9832 | 3.9099 |
| 18 | 5.5339 | 5.4008 | 5.2732 | 5.1508 | 5.0333 | 4.9205 | 4.8122 | 4.7080 | 4.6079 | 4.5115 | 4.4187 | 4.3293 | 4.2431 | 4.1601 | 4.0799 | 4.0026 | 3.9279 |
| 19 | 5.5845 | 5.4475 | 5.3162 | 5.1905 | 5.0700 | 4.9544 | 4.8435 | 4.7370 | 4.6346 | 4.5362 | 4.4415 | 4.3504 | 4.2627 | 4.1782 | 4.0967 | 4.0182 | 3.9424 |
| 20 | 5.6278 | 5.4872 | 5.3527 | 5.2241 | 5.1009 | 4.9828 | 4.8696 | 4.7610 | 4.6567 | 4.5565 | 4.4603 | 4.3677 | 4.2786 | 4.1929 | 4.1103 | 4.0306 | 3.9539 |
| 21 | 5.6648 | 5.5210 | 5.3837 | 5.2524 | 5.1268 | 5.0065 | 4.8913 | 4.7809 | 4.6750 | 4.5733 | 4.4756 | 4.3818 | 4.2916 | 4.2047 | 4.1212 | 4.0407 | 3.9631 |
| 22 | 5.6964 | 5.5498 | 5.4099 | 5.2763 | 5.1486 | 5.0264 | 4.9094 | 4.7974 | 4.6900 | 4.5871 | 4.4882 | 4.3933 | 4.3021 | 4.2144 | 4.1300 | 4.0487 | 3.9705 |
| 23 | 5.7234 | 5.5743 | 5.4321 | 5.2964 | 5.1668 | 5.0430 | 4.9245 | 4.8111 | 4.7025 | 4.5984 | 4.4985 | 4.4027 | 4.3106 | 4.2222 | 4.1371 | 4.0552 | 3.9764 |
| 24 | 5.7465 | 5.5951 | 5.4509 | 5.3134 | 5.1822 | 5.0569 | 4.9371 | 4.8225 | 4.7128 | 4.6077 | 4.5070 | 4.4104 | 4.3176 | 4.2285 | 4.1428 | 4.0604 | 3.9811 |
| 25 | 5.7662 | 5.6129 | 5.4669 | 5.3278 | 5.1951 | 5.0685 | 4.9476 | 4.8320 | 4.7213 | 4.6154 | 4.5139 | 4.4166 | 4.3232 | 4.2336 | 4.1474 | 4.0646 | 3.9849 |