Example

One starts with a salary of \$40,000 that grows exponentially at a rate of 3% for 32 years reaching a salary of \$104,467.86 at retirement. The initial investment of \$50,000 is being added to by 15% of salary for 32 years accumulating to \$950,052.41.

After 32 of income from salary the individual starts to withdraw \$50,000 which increases at the rate of 1.5% compounded continuously. The investments continue to grow at 4.5%. The nest egg will last 28.13 years at which time the investment is at \$0. At the life expectancy of 25 years the balance is \$217,658.

The table shows the 32 years up to retirement and the 28.1 years that the nest egg can last.

The graph shows the ups and downs.

Retirement Calculations Graphically Prof. Richard B. Goldstein



