Using the TI-83 TVM_Solver

The TVM (Time Value of Money) package on the TI-83 is specially designed to help with annuities. Annuities are any financial situation where there is a periodic payment. Such situations include mortgages, loans, sinking funds, and both contributions to and deductions from an IRA.

The variables are as follows:

N = The number of payments involved. For example, a 30 year mortgage with monthly payments would be 30*12 = 360.

I% = Annual interest rate, not expressed as a decimal so 7% is inputed as 7, not .07

PV = Present Value

PMT = The amount of the periodic payment

 $\mathbf{FV} = \mathbf{Future Value}$

P/Y = Payments per year. Note : Changing this value automatically changes the value of C/Y. So set this one first.

C/Y =Number of times interest is compounded per year. See note about P/Y

PMT:END BEGIN = Whether payments are due at the first of each period or at the end. We are always going to use END.

The idea is that there are 7 variables and you should know 6 of them. You fill in the six you know and move your cursor to the one you don't know and hit **SOLVE** (Alpha-Enter).

Important Note :

If a money is an outflow, it should be negative. An inflow is positive. This applies to the **PV**, **FV**, and **PMT** fields. For example, if you are making contributions to an IRA of \$500 per month then you would use -500 for **PMT**. If you are receiving payments from an IRA of \$500 per month then you would use 500 for **PMT**.

A rule of thumb : **PV** should almost always be negative and **FV** should almost always be positive.