Lesson 4: THE TVM SOLVER
The TI-inspire Calculators are equipped with a financial tool that can perform compound interest calculations for us. This can be found with the MENU Button when you are in the calculator mode. From Menu: then 8: Finance, then 1: Finance Solver. The information needed is the following.
Fill in the what each variable requires.

Example 1. Patti deposits $500 into a bank account that pays 5.2% interest, compounded daily. After three years, how much does she have?

Example 2. What is the present value of a $2671.08 debt to be repaid in 2 years if the loan is being charged 18% interest compounded monthly?
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Example 3: Joe deposits $1000 into an account that pays monthly interest, after 6 years, he has $1309.30. What interest rate did the bank offer him?

\[
\begin{array}{|c|c|}
\hline
N & 6 \\
I% & 4.5 \\
PV & 0 \\
PMT & 0 \\
FV & 1309.30 \\
P/Y & 12 \\
C/Y & 1 \\
PMT TYPE & BEGIN \\
\hline
\end{array}
\]

Example 4: How long will it take Jamie’s $1690.35 tax return to be worth $2000, if he immediately deposits it into an account paying 8.5% quarterly?

\[
\begin{array}{|c|c|}
\hline
N & 8.5 \\
I% & 8.5 \\
PV & -1690.35 \\
PMT & 0 \\
FV & 2000 \\
P/Y & 4 \\
C/Y & 4 \\
PMT TYPE & BEGIN \\
\hline
\end{array}
\]

Example 5. Ken deposited $500 in an investment fund that has historically earned 11.3% per year, compounded annually. He intends to leave the money in the fund for at least four years.

a) Assuming the same rate of return, how much will Ken’s investment be worth in four years.

\[
\begin{array}{|c|c|}
\hline
N & 4 \\
I% & 11.3 \\
PV & -500 \\
PMT & 0 \\
FV & 667.27 \\
P/Y & 1 \\
C/Y & 1 \\
PMT TYPE & BEGIN \\
\hline
\end{array}
\]

b) What would be the investment in four years if the rate of return is doubled?