Nov 122010
Some useful formulas:

$$
\begin{array}{cc}
A=P\left(1+\frac{r}{n}\right)^{n t} & A=P(1+r t) \\
A=P\left[\frac{(1+i)^{m}-1}{i}\right] & V=P\left[\frac{1-(1+i)^{-m}-1}{i}\right]
\end{array}
$$

(1) [5] What rate of interest compounded annually is required to double an investment in 3 years?

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(2) [10] Pam and Tim decide to start saving money for their daughter's college education. They open a college savings plan with a $\$ 700$ initial investment and next month start to make monthly deposits of $\$ 60$. If the account pays $5.00 \%$ compounded monthly, how much will the account be worth after 180 deposits? Be sure to include the initial investment in the computation.

