Some useful formulas:

$$A = P\left(1 + \frac{r}{n}\right)^{nt} \qquad A = P\left(1 + rt\right)$$
$$A = P\left[\frac{(1+i)^m - 1}{i}\right] \qquad V = P\left[\frac{1 - (1+i)^{-m}}{i}\right]$$

(1) [5] What is the accumulated value of \$500 invested at 8% compounded quarterly for $2\frac{1}{2}$ years?

(2) [5] What rate of interest compounded annually is required to double an investment in 3 years?

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(3) [5] A person wishes to accumulate \$350,000 in a pension fund over the next 20 years. In order to reach this goal, how much should the person deposit at the end of each month into an account paying 5% compounded monthly?