Some useful formulas:

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

(1) [3] Determine the amount of the annuity (that is, the future value) if deposits of \$100 are made at the end of each year for 10 years. The interest rate on the deposits is 10% compounded annually. (Round your answer to two decimal places.)

(2) [6] Dan wishes to have \$350,000 in a pension fund 20 years from now. How much should he deposit at the end of each month into an account paying 5% compounded monthly to have \$350,000 at the end of the 20 years? (Round your answer to two decimal places.)

(3) [6] A person has just retired at age 65 and wants to provide himself retirement income for the next 20 years. An investment fund which pays 5% per annum compounded monthly is available. What lump sum deposit into the investment fund is required now which will allow withdrawals of \$250 at the end of each month for the next 20 years? (Round your answer to two decimal places.)

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