QUIZ 12, due February 26.

NAME:

1. Complete the formula.

A) Future value (assume compounding) = Present value ×

B) Present value (assume compounding) = Future value ×

C) Accumulated amount (of an annuity) = Payment ×

D) Payment = Accumulated amount (of an annuity) ×

E) Effective rate (or APY) = (1 + )

F) Simple interest = Deposit ×

G) Present value of an annuity = Payment ×

H) Payment = Present value of an annuity ×

I) Debt = Payment ×

J) Payment = Debt ×

K) Term of an annuity = \( \frac{\ln\left( \frac{\text{Accumulated amount}}{\text{Payment}} \right)}{\ln(\text{Payment})} \)

L) Number of periods of an annuity =

M) Balance unpaid after \( t_0 \) years = Payment ×

N) Sinking fund payment = Accumulated amount ×
2. Solve the system of equations (set it up first if needed) by substitution or by elimination. Verify your answer. Supply a graphical illustration.

A) Question 29, page 165.

B) Question 30, page 165.

C) Question 43, page 166.