QUIZ 4

Section 1.6

For the below problem, solve for $t$ using natural logarithms.

12. $40 = 100e^{-0.03t}$

Write the function in the below problem in the form $P = P_0 a^t$. Does this function represent exponential growth or exponential decay?

23. $P = 15e^{0.25t}$

SECTION 1.7

2. If you deposit $10,000 in an account earning interest at an 8% annual rate compounded continuously, how much money is in the account after five years?

3. If you need $20,000 in your bank account in 6 years, how much must be deposited now? The interest rate is 10%, compounded continuously.