

6. [11 points] For each equation below, solve EXACTLY for the specified variable. *Show your work step-by-step and write your answers in exact form in the answer blanks provided.*

a. [4 points] $12.1e^{0.15p} = 0.78(0.9)^p$

Answer: $p =$ _____

b. [4 points] $\frac{\ln(z^7) - \ln(z^4)}{\ln(50)} = 5$

Answer: $z =$ _____

c. [3 points] $\ln(10e^{-5n}) = 3n + 2$

Answer: $n =$ _____