

MATH 1314

Chapter 4.4: Exponential And Logarithmic Equations

SOLVE.

$$4^x = 15$$

$$40e^{0.6x} - 3 = 237$$

$$2^{3x-8} = 16$$

$$27^{x+3} = 9^{x-1}$$

SOLVE.

$$5^{x-2} = 4^{2x+3}$$

$$e^{2x} - 4e^x + 3 = 0$$

$$\text{LOG}_4(x+3) = 2$$

$$3 \ln 2x = 12$$

$$\ln(x+2) - \ln(4x+3) = \ln\left(\frac{1}{x}\right)$$

How long will \$1000 take to grow to \$3600
at 8% interest compounding quarterly?

HINT: $A = P\left(1 + \frac{R}{N}\right)^{Nt}$

