

Math 111 GWS 11 - Logarithmic and Exponential Equations 2

Name: \_\_\_\_\_

1. Solve the following equations. You may use your calculator but show work along the way.

a.  $14.7 = 18.1e^{0.32t}$

c.  $10000 = 2000 \cdot 1.025^t$

b.  $3.22 = 6.44e^{-0.07t}$

d.  $2500 = 800 \left(1 + \frac{0.035}{12}\right)^{12t}$

e.  $50 = 253e^{-0.00312t}$

h.  $10 = 100e^{\ln(1/2)t/8}$

f.  $300 = 178e^{0.071t}$

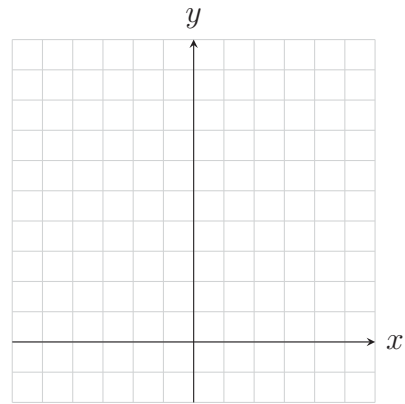
i.  $0.733 = e^{\ln(.5)t/6200}$

g.  $18 = 36e^{k \cdot 12}$

j.  $200 = 50e^{\ln(2)t/5}$

2. Solve the following equations by graphing. You may use your calculator on these problems.

a.  $e^x = x^2$



b.  $e^x - \ln(x) = 4$

