## Algebra II

Name

Worksheet 10.5-10.6 Date

Period

Solve each equation or inequality. Round to four decimal places

1. 
$$\ln(x+2)=3$$
  
 $e^{\ln(x+2)}=e^3$   
 $x+2=e^3=20.0855$   
 $x=18.0855$ 

2. 
$$5e^{3x} + 1 \ge 7$$

$$5e^{5x} \ge 6$$
 $e^{5x} \ge \frac{6}{10}$ 
 $10e^{5x} \ge 10$ 
 $5x^2 . 1823$ 
 $5x^2 . 0365$ 

3. 
$$\ln(-2x) = 7$$
  
 $e^{\ln(-2x)} = e^{7}$   
 $-2x = 1096.6332$ 

X = -548.3166

$$-3e^{2} + 10 < 8$$
  
 $-10 - 18$   
 $-3e^{2} < -2$   
 $e^{2} > \frac{2}{3}$   
 $\ln e^{2} > \ln^{2} / 3$ 

5. Write an equivalent logarithmic equation for  $e^4 = 8x$ . 6. Evaluate  $e^{\ln 2x}$ .

7. A substance decays according to the equation  $y = ae^{-0.1216t}$ , where t is in years. Find the half-life of the substance. Round to the nearest tenth.  $y = \frac{1}{2}\alpha$   $\frac{1}{2}\alpha = \alpha e^{-.12/6}t$   $0.5 = e^{-.12/6}t$   $1n0.5 = \ln e^{-.12/6}t$ 

$$t = \frac{\ln 0.5}{-.1216} = 5.7002$$

- 8. A piece of machinery valued at \$250,000 depreciates at a fixed rate of 12% per year. After how many years will the value have depreciated to \$100,000?

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$$y = \alpha(1-r)^{\alpha}$$

100,000 = 250,000 (1-.12)  $y = \frac{\log_2 y}{\log_2 y}$ 

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9. The Smiths bought a house worth \$400,000. Assuming that the house will appreciate 5.6% per year, what will the house be worth in twelve years? Round to the nearest dollar.

A = 12

10. A certain strain of bacteria grows from 40 to 326 in 120 minutes. Find the constant k for this type of bacteria, then write the equation for modeling this exponential growth.

# **Spring Board Algebra 1 Answer Key**

**Brian Leaf** 

### **Spring Board Algebra 1 Answer Key:**

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