

Algebra II

Name Key

Worksheet 10.5-10.6 Date _____

Period _____

Solve each equation or inequality. Round to four decimal places

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

$x+2 = e^3 = 20.0855$
 $x = 18.0855$

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

$-2x = e^7 = 1096.6332$
 $x = -548.3166$

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

$\ln 8x = 4$

$e^{\ln 2x} = 2x$

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.

$\frac{1}{2}a = ae^{-0.1216t}$

$0.5 = e^{-0.1216t}$
 $\ln 0.5 = \ln e^{-0.1216t}$

$\ln 0.5 = -0.1216t$
 $t = \frac{\ln 0.5}{-0.1216} = 5.7002$

$t = 5.7 \text{ years}$

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?

$100,000 = 250,000(1 - .12)^t$

$.4 = .88^t$

$\log .4 = \log .88^t$

$\log .4 = t \log .88$

$t = \frac{\log .4}{\log .88}$

$t = 7.1679$

$t = 7.2 \text{ years}$

$y = a(1-r)^t$

$a = 250,000$

$y = 100,000$

$100,000 = 250,000(1 - .12)^t$

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.

$y = a(1+r)^t$

$a = 400,000$

$r = 5.6\% = .056$

$t = 12$

$y = 400,000(1 + .056)^{12}$

$= 400,000(1.056)^{12}$

$= 769178.2756$

$= \$769,178$

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.

$y = ae^{kt}$

$a = 40$

$y = 326$

$t = 120 \text{ min}$

$326 = 40e^{k \cdot 120}$

$8.15 = e^{120k}$

$\ln 8.15 = \ln e^{120k}$

$\ln 8.15 = 120k$

$k = \frac{\ln 8.15}{120} = .0175$

$y = ae^{.0175t}$

Advanced Algebra Lesson Master B Answers

B Lingard

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