

Algebra II

Name Key

Worksheet 10.5-10.6 Date _____

Period _____

Solve each equation or inequality. Round to four decimal places.

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

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

$5e^{2x} \geq 6$
 $e^{2x} \geq \frac{6}{5}$
 $\ln e^{2x} \geq \ln \frac{6}{5}$
 $2x \geq .1823$ $x \geq .0912$

3. $\ln(-2x) = 7$
 $e^{\ln(-2x)} = e^7$
 $-2x = 1096.6332$
 $x = -548.3166$

4. $-3e^x + 10 < 8$
 $-3e^x < -2$
 $e^x > \frac{2}{3}$
 $\ln e^x > \ln \frac{2}{3}$

$x > \ln \frac{2}{3}$
 $x > -.4055$

5. Write an equivalent logarithmic equation for $e^4 = 8x$.

$\ln 8x = 4$

6. Evaluate $e^{\ln 2x}$.

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

7. A substance decays according to the equation $y = ae^{-.1216t}$, where t is in years. Find the half-life of the substance. Round to the nearest tenth.

$\frac{1}{2}a = ae^{-.1216t}$
 $0.5 = e^{-.1216t}$
 $\ln 0.5 = \ln e^{-.1216t}$
 $\ln 0.5 = -.1216t$
 $t = \frac{\ln 0.5}{-.1216} = 5.7002$ $t = 5.7 \text{ years}$

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?

$100,000 = 250,000(1-.12)^t$
 $.4 = .88^t$
 $\log .4 = \log .88^t$
 $\log .4 = t \log .88$
 $t = \frac{\log .4}{\log .88} = 7.1679$ $t = 7.2 \text{ years}$

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.

$y = a(1+r)^t$
 $a = 400,000$
 $r = 5.6\% = .056$
 $t = 12$
 $y = 400,000(1.056)^{12}$
 $= 400,000(1.056)^{12}$
 $= 769,178.2756$ $= \$769,178$

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.

$y = ae^{kt}$
 $a = 40$
 $y = 326$
 $t = 120 \text{ min}$
 $326 = 40e^{k \cdot 120}$
 $8.15 = e^{120k}$
 $\ln 8.15 = \ln e^{120k}$
 $\ln 8.15 = 120k$
 $k = \frac{\ln 8.15}{120} = .0175$
 $y = ae^{.0175t}$

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Thomas Richards

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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