

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.  $\ln(-2x) = 7$

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

$$-2x = 1096.6332$$

$$x = -548.3166$$

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

$$5e^{5x} \geq 6$$

$$e^{5x} \geq \frac{6}{5}$$

$$\ln e^{5x} \geq \ln \frac{6}{5}$$

$$5x \geq .1823$$

$$x \geq .0365$$

4.  $-3e^x + 10 < 8$

$$-3e^x < -2$$

$$e^x > \frac{2}{3}$$

$$\ln e^x > \ln \frac{2}{3}$$

$$x > \ln \frac{2}{3}$$

$$x > \ln \frac{2}{3}$$

$$x > -.4055$$

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  $y = ae^{-0.1216t}$ , where  $t$  is in years. Find the half-life of the substance. Round to the nearest tenth.

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

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

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

$$\ln 0.5 = -.1216t$$

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

$$t = 5.7 \text{ years}$$

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?

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

$$.4 = .88^t$$

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

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

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

$$t = 7.1679$$

$$t = 7.2 \text{ years}$$

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

$$a = 250,000$$

$$y = 100,000$$

$$r = 12\% = .12$$

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.

$$y = ae^{kt}$$

$$a = 40$$

$$y = 326$$

$$t = 120 \text{ min}$$

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

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

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

$$\ln 8.15 = 120k$$

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

$$y = ae^{.0175t}$$

# Algebra Lesson 8 3 Practice Answers

**Thomas Richards**

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

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texts could be improved In this regard I researched several topics including how people learn learning styles etc how the brain functions in storing and retrieving information and the fundamentals of memory systems Many of the changes incorporated in this second edition are a result of this research The changes were field tested during a three year period in which I taught a water and wastewater mathematics course for Palomar Community College San Marcos California All the fundamental math concepts and skills needed for daily water wastewater treatment plant operations This first volume Basic Math Concepts for Water and Wastewater Plant Operators provides a thorough review of the necessary mathematical concepts and skills encountered in the daily operations of a water and wastewater treatment plant Each chapter begins with a skills check to allow the student to determine whether or not a review of the topic is needed Practice problems illustrate the concepts presented in each section

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