

Solve each equation or inequality. Round to four decimal places

$$1. \ln(x+2) = 3$$

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

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

$$x = 18.0855$$

$$3. \ln(-2x) = 7$$

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

$$-2x = 1096.6332$$

$$x = -548.3166$$

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

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

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

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

$$5x \geq .1823, x \geq .0365$$

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

$$-10 \quad -10$$

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

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

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

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

$$x > -.4055$$

$$5. \text{ Write an equivalent logarithmic equation for } e^4 = 8x.$$

$$\ln 8x = 4$$

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

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

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 Connections Volume 1 Answer Key

**June Barrow-Green, Jeremy Gray, Robin
Wilson**



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Algebra Connections Book Leiva, Miriam A. Leiva, 1996

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Foundation, 2011-07-19 CK 12's Basic Geometry FlexBook Volumes 1 through 2 is designed to present students with geometric principles in a more graphics oriented course Volume 1 includes 6 chapters Basics of Geometry Reasoning and Proof Parallel and Perpendicular Lines Triangles and Congruence Relationships with Triangles and Polygons and Quadrilaterals

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The History of Mathematics: A Source-Based Approach: Volume 1 June Barrow-Green, Jeremy Gray, Robin Wilson, 2019-05-08 The History of Mathematics A Source Based Approach is a comprehensive history of the development of mathematics This the first volume of the two volume set takes readers from the beginning of counting in prehistory to 1600 and the threshold of the discovery of calculus It is notable for the extensive engagement with original primary and secondary source material The coverage is worldwide and embraces developments including education in Egypt Mesopotamia Greece China India the Islamic world and Europe The emphasis on astronomy and its historical relationship to mathematics is new and the presentation of every topic is informed by the most recent scholarship in the field The two volume set was designed as a textbook for the authors acclaimed year long course at the Open University It is in addition to being an innovative and insightful textbook an invaluable resource for students and scholars of the history of mathematics The authors each among the most distinguished

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Connection for Singapore Math Sandra Chen,2008 Singapore Math strategies can do wonders for student achievement but only if the parents are behind the program Get them on your side by showing them exactly how the strategies work and why they re so effective And save hours of prep time by using these ready to go handouts to provide explanations and practice Even includes special tips for winning over difficult parents Grades 1 6 Amazon El-Hi Textbooks and Serials in Print ,2006

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