

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.

$$y = ae^{kt}$$

$$a = 40$$

$$y = 326$$

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

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

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

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

$$\ln 8.15 = 120k$$

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

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

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National Science Foundation (U.S.)



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The Answers Julie Wofford Anderson, 2001 A very practical and quick read book for teachers They are sure to find many answers to their questions and concerns as they embark on their careers Laura Brinker Kent Assistant Professor University of South Carolina Columbia The answers It s the truth Laura Forehand First Grade Teacher Darlington County School District South Carolina A quick access one stop source for all the questions new teachers will ask Julie Wofford Anderson teacher and educational consultant uses her years on the front lines to answer the most commonly asked real life questions of preservice as well as first and second year teachers Her experience supervising teachers and training student teachers provides her with the unique ability to have field tested answers ready before the questions are asked Sample questions includes What can I do to command respect from my students When am I supposed to do all this stuff and teach as well What are rubrics exactly How can I establish good discipline in my classroom What do I do with unreasonable demands by vocal and difficult parents This practical been there done that approach to overcoming the most common problems facing new teachers today will save time and effort and put you on the path to success A must for every new and preservice teacher in K 12

Football Math Jack Coffland, David A. Coffland, 2005 Educational resource for teachers parents and kids

Summaries of Projects Completed National Science Foundation (U.S.), *Coaching Students with Executive Skills Deficits* Peg Dawson, Richard Guare, 2012-02-29 This book has been replaced by *Coaching Students with Executive Skills Challenges* Second Edition ISBN 978 1 4625 5219 1

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Everyday Mathematics 2 Grade Teacher's Lesson Guide Volume 1 Max Bell, 2004

Interdisciplinary Perspectives on Math Cognition Marcel Danesi, 2019-09-14 This is an anthology of contemporary studies from various disciplinary perspectives written by some of the world s most renowned experts in each of the areas of mathematics neuroscience psychology linguistics semiotics education and more Its purpose is not to add merely to the accumulation of studies but to show that math cognition is best approached from various disciplinary angles with the goal of broadening the general understanding of mathematical cognition through the different theoretical threads

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