

Solve each equation or inequality. Round to four decimal places

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

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

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

$$x = 18.0855$$

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

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

$$-2x = 1096.6332$$

$$x = -548.3166$$

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

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

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

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

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

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

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

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

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

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

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

$$x > -.4055$$

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

$$\ln 8x = 4$$

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

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

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.

$$y = ae^{kt}$$

$$a = 40$$

$$y = 326$$

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

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

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

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

$$\ln 8.15 = 120k$$

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

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

Discovering Advanced Algebra Chapter Answers

Jerald Murdock



Discovering Advanced Algebra Chapter Answers:

Discovering Advanced Algebra Jerald Murdock, 2004 **Advanced Algebra** William T. Welcker, 1880 **Exploring Advanced Euclidean Geometry with GeoGebra** Gerard A. Venema, 2025-08-15 This book provides an inquiry based introduction to advanced Euclidean geometry. It utilizes dynamic geometry software specifically GeoGebra to explore the statements and proofs of many of the most interesting theorems in the subject. Topics covered include triangle centers, inscribed, circumscribed, and escribed circles, medial and orthic triangles, the nine point circle, duality, and the theorems of Ceva and Menelaus, as well as numerous applications of those theorems. The final chapter explores constructions in the Poincaré disk model for hyperbolic geometry. The book can be used either as a computer laboratory manual to supplement an undergraduate course in geometry or as a stand alone introduction to advanced topics in Euclidean geometry. The text consists almost entirely of exercises with hints that guide students as they discover the geometric relationships for themselves. First the ideas are explored at the computer and then those ideas are assembled into a proof of the result under investigation. The goals are for the reader to experience the joy of discovering geometric relationships to develop a deeper understanding of geometry and to encourage an appreciation for the beauty of Euclidean geometry.

Advanced Algebra Joseph Victor Collins, 1918 This text is arranged to follow a first year course and meets the requirements in algebra for both college of liberal arts technical schools and high schools with advanced courses. The text begins with a review of the first year course which aims to unify arithmetic algebra and plane geometry as effectively as possible. The second part of the text advances to treat the remaining topics belonging to elementary algebra and finishes with the topics belonging to advanced algebra. The aim of the entire volume is to address all topics with simplicity, clearness, and conciseness without sacrificing rigor.

Discovering Advanced Algebra, 2004 Discovering Advanced Algebra, 2004-01-31 **Discovering Advanced Algebra, 2nd Ed. Teaching and Worksheet Masters** Key Curriculum Press, 2009 *ACT Math For Dummies* Mark Zegarelli, 2011-06-09 Multiply your chances of success on the ACT Math Test. The ACT Mathematics Test is a 60 question 60 minute subtest designed to measure the mathematical skills students have typically acquired in courses taken by the end of 11th grade and is generally considered to be the most challenging section of the ACT. ACT Math For Dummies is an approachable, easy to follow study guide specific to the Math section, complete with practice problems and strategies to help you prepare for exam day. Review chapters for algebra, geometry, and trigonometry. Three practice tests modeled from questions off the most recent ACT tests. Packed with tips, useful information, and strategies. ACT Math For Dummies is your one stop guide to learn, review, and practice for the test.

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