

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.

$$y = ae^{kt}$$

$$a = 40$$

$$y = 326$$

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

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

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

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

$$\ln 8.15 = 120k$$

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

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

# Answer Key Master Algebra 1

**Wenbin Ji**



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**Kitchen Math** Susan Brendel, 1997 Even those who don't like math are interested in food Kitchen Math serves up 38 activities connecting basic math operations to purchasing preparing cooking and serving different dishes What's really the best price on yogurt How long should you cook the eggs How do you read nutrition labels Your students will practice fundamental math skills while they solve real life cooking shopping and planning scenarios Comprehensive teacher materials include lesson objectives teaching notes pre and post tests and complete answer keys **Glencoe Algebra 1**, 2001

**El-Hi Textbooks & Serials in Print**, 2005, 2005 **El-Hi Textbooks and Serials in Print**, 2006 *Publishers' Circular and Booksellers' Record of British and Foreign Literature*, 1894 **The Publishers' Circular and Booksellers' Record of British and Foreign Literature**, 1895 Publishers' Circular and General Record of British and Foreign Literature, and Booksellers' Record, 1898 **Educational Times**, 1896 **The Mathematical Gazette**, 1894 Nature Sir Norman Lockyer, 1891 *The Athenaeum*, 1891 **Math, Grade 5** American Education Publishing, 2012-02-01 This workbook designed by educators offers a variety of activities for skill and drill practice with the intent of helping children achieve mastery of the mathematical skills necessary to succeed in school **Bilingual Educational Publications in Print**, 1983 **Grade 2 Reading** McGraw-Hill, 1998-07 Second graders reinforce skills with more challenging lessons in math reading phonics and language arts as introduced by the cast of the Emmy Award winning Animaniacs TM television series All books feature an answer key and a reward certificate **Phonics** McGraw-Hill, inc, 2001 McGraw Hill the nations 1 educational publisher for grades K 12 has combined their top selling Spectrum workbook line with the highly respected Mercer Mayer Little Critter R characters This series focuses on phonics structural analysis and dictionary skills which provides everything your child needs to build multiple skills in language all the while incorporating wholesome values from the Mercer Mayer Little Critter R characters This is the same exact workbook as the starburst Spectrum workbook except for the cover being different more than 140 full color pages soft cover answer key included perforated pages *Math* Jim Parham, 1999 *Subject Guide to Books in Print*, 2001 **El-Hi Textbooks & Serials in Print**, 2003, 2003 *Price List and Order Form for Mathematics Instructional Materials*, 1984 Geography Grade 6, 1998-03 The Globetrotter Travel Map of the World has been specifically designed as a guide to both the physical and the political World This informative map with stunning shaded relief includes maps of the North and Southpoles large scale projections of the physical world and a detailed political map complete with up to date statistics The map is ideal for home school and office use and contains an index of countries and their capitals a handy world flag panel and interesting world facts Physical Map Separate maps of North and South Poles geographical statistics Political Map Separate maps of North and South Poles countries capital cities flag chart

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