

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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Intermediate Algebra James Hall, 1999-07 **Teaching the National Strategy at Key Stage 3** Pat Perks, Stephanie Prestage, 2013-10-23 National Numeracy Strategy NNS for Key Stage 3 will be introduced into Secondary Schools in September 2001 The NNS document Framework for Teaching Mathematics in Years 7 to 9 is based on the National Curriculum but offers a very different interpretation of some of the expected learning outcomes for year 7 to 9 This practical book interprets and explains the document for busy practitioners spells out the expectations of the framework and offers guidance on how to fulfil these describes and explains the types of teaching methods for maximising students learning and includes many practical ideas for classroom activities within the framework of the NNS **Fact Mastery: Addition & Subtraction, Grades 1 - 3** Seberg, 2010-05-18 Make math matter to students in grades 1 3 using Fact Mastery Addition and Subtraction This 176 page book helps students master fundamental facts now to prepare them for advanced math later Students recall basic addition and subtraction facts by using strategies that build understanding of numbers The book includes more than 75 half page drills on sums and minuends up to 20 15 mega fun games and 40 timed tests The book supports NCTM standards *Math A* Lawrence S. Leff, 2004 The old Sequential Math exams are gradually being phased out of the New York State Regents curriculum A brand new and more rigorous exam Regents Math A is already being offered as replacement for all of the former Sequential Math I and the first half of Sequential Math II exams and soon will replace them entirely Barron's brand new Regents Exams and Answers book for this subject covers all topics on the new Math A exam It also presents all seven of the actual New York State Regents Math A exams that have been issued to date All exams appear in this book with answers to all questions These ever popular guides include study tips test taking strategies score analysis charts and other valuable features They are an ideal source of practice and test preparation The detailed answer explanations make each exam a practical learning experience **John Heywood's complete series of home lesson books** Alfonzo Gardiner, 1872 *Vocational Careers Sourcebook* Kathleen M. Savage, Karen Hill, 1992 Provides information on the salary and employment outlook for 135 careers which do not require a college degree *The Saturday Review of Politics, Literature, Science and Art*, 1882 **The Athenaeum**, 1876 *The Journal of Education*, 1890 *Journal of Education and School World*, 1887 **The Journal of the National Education Association** National Education Association of the United States, 1933 **Publishers' Circular and Booksellers' Record of British and Foreign Literature**, 1893 **The Irish Teachers' Journal and Assistant**, 1876 **The Academy**, 1887 **Nature** Sir Norman Lockyer, 1890 *Educational Times*, 1887 **Publishers' circular and booksellers' record**, 1887 **New National Framework Mathematics 7+ Teacher Resource Pack** M. J. Tipler, 2014-11 New National Framework Mathematics features extensive teacher support materials which include dedicated resources to support each Core and Plus Book The 7 Plus Teacher

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