

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 Lab Recording Sheet Answer Key

**BM King**



## Algebra Lab Recording Sheet Answer Key:

**Math Advantage** Grace M. Burton, Harcourt Brace, 1998-05-22      **Harcourt Math, Grade 1** HSP, 2002 Mathematics program for grades K 6 provides focused instruction on key skills comprehensive assessment targeted intervention and practice for mastery and retention      Middle School Math Holt Rinehart & Winston, 2002-11      *Well Played, Grades 6-8* Linda Dacey, Karen Gartland, Jayne Bamford Lynch, 2023-10-10 Students love math games and puzzles but how much are they really learning from the experience Too often math games are thought of as just a fun activity or enrichment opportunity Well Played Grades 6 8 Building Mathematical Thinking Through Number and Algebraic Games and Puzzles shows you how to make games and puzzles an integral learning component that provides teachers with unique access to student thinking This third book in the series helps you engage students in grades 6 8 in discussions of mathematical ideas and deepen their conceptual understanding It also helps you develop students fluency with number systems ratio and proportional relationships expressions and equations statistics and probability and patterns graphs and functions The twenty five games and puzzles in Well Played Grades 6 8 which have all been field tested in diverse classrooms contain Explanations of the mathematical importance of each game or puzzle and how it supports student learning Variations for each game or puzzle to address a range of learning levels and styles Classroom vignettes that model how best to introduce the featured game or puzzle The book also includes a separate chapter with suggestions for how to effectively manage games and puzzles in diverse classrooms game boards game cards and puzzles assessment ideas and suggestions for online games puzzles and apps Well Played Grades 6 8 will help you tap the power of games and puzzles to engage students in sustained and productive mathematical thinking      **Resources in education** , 1988-03      Holt Pre-Algebra Technology Lab Activities Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-04      *Math Advantage, Grade 2* Harcourt Brace Publishing, 1998      **Mathematics** GLENCOE, 1995      **Math Advantage, Grade 3** Harcourt Brace Publishing, 1997-06      *Glencoe Mathematics* , 2001      Te Math Advantage 98 Gr 6 Vol 1 Harcourt Brace Publishing, 1997-10-10      **El-Hi Textbooks and Serials in Print** , 2003      **El-Hi Textbooks and Serials in Print** , 1985      *El-Hi Textbooks in Print* , 1984      *The Shock and Vibration Digest* , 1975-07      *Congressional Record* United States. Congress, 1974      *Scientific and Technical Aerospace Reports* , 1990      Activity-oriented Mathematics William E. Schall, 1976      **Energy Research Abstracts** , 1983      The Massachusetts Teacher , 1972

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