

Algebra 1 Review: First Semester

1. "What is the value of $2 + 2^2$?" Some people say it's 4 , and some people say it's 8 . Explain what is correct.

2. Margaret is going shopping. She puts three toy bicycles, three phones, and three action figures in her cart. Then she puts an extra toy bicycle and takes out two phones. What is left in her cart at the end?

3. Simplify each expression below. For the first one, it may help to think of Margaret's shopping situation.
 a) $3x + 2y + 3z + 4x - 2z$ b) $3x + 3 - 2x + 12$ c) $4x - 3y + 10 - 3x + 7y - 10$

4. Determine all unknown values in each figure. Then find the area.
 a)  b) 

5. For each equation below, choose an order of operations: addition, subtraction, multiplication, and then division or division. a) Multiplication then addition of the equation $\frac{3}{2}x + 3 = 24$ b) Multiplication then division of the equation $\frac{3}{2}x = 24$
 c) Division by the fractions $\frac{3}{2}$ d) Division by the multiplication of the fractions $\frac{3}{2}$

6. Multiple choice: Dylan has three toy bicycles and three phones. Total cost over the three items is \$12. Which expression best represents his cost? (A) $3x + 4y = 12$ (B) $3x + 4y = 36$

7. Multiple choice: Dylan's mom wants to wash and dry his three Dylan's T-shirts, one T-shirt at the time. Which expression best represents his mom's cost? (A) $9x + 12y = 36$ (B) $9x + 12y = 30$

8. Simplify each of the following using the distributive property. For the first one, it may help to think of Dylan and his clothes.
 a) $2(3x + 4y - 10)$ b) $-2(3x + 2y - 7)$ c) $2(4x + 3y + 7)$ d) $7(2x - 5)$ e) $3(3x + 2)$

9. Determine, in words, when to use the "cross-multiplication" or "eliminate" method to solve equations.

10. Solve each proportion.
 a) $\frac{3x}{24} = \frac{1}{3}$ b) $\frac{x+3}{2x-3} = \frac{2x+3}{2}$ What don't forget parentheses? c) $\frac{2x+7}{3} = 15$ What makes it not a fraction?

11. Multiple choice: Which of the following expressions corresponds to the expression $(x - 3)(x + 3) - x^2$?
 (A) $3x^2$ (B) $(3x)^2$

12. Multiple choice: Which of the following expressions corresponds to the expression $(3x - 3y - 3z)^2$?
 (A) $3x^2$ (B) $(3xy)^2$

13. Algebraic Simplification: Dylan simplified the expression $\frac{8x^2y^3}{2x^2y^2}$ by writing it out the long way, and then his teacher marked it incorrect. Explain what he did wrong, and then write it correctly. There is Dylan's incorrect solution:

$$\frac{8x^2y^3}{2x^2y^2} = \frac{8 - xy - 2x - 2y}{2 - xy - xy - 2x - 2y - 2y} = \frac{8x^2y^3}{2x^2y^2}$$

Algebra Semester Answer Key

Theodore John Szymanski

Algebra Semester Answer Key:

33 Steps to Algebra Readiness Fred Pyrczak,1995 Assesses student readiness with 31 diagnostic tests Promotes understanding of algebraic concepts with extensive practice sheets

Mathematical Teaching Aids ,1954

Algebra: Themes, Tools, Concepts -- Teachers' Edition Henri Picciotto,Anita Wah,1994

Christian Home Educators' Curriculum Manual Cathy Duffy,1997-11

Algebra Facts Theodore John Szymanski,1993 Provides easy access to the most crucial concepts and formulas in basic algebra

Elementary and Intermediate Algebra Alan S. Tussy,R. David Gustafson,2001-08 This book has been designed to present the material reinforce major concepts and test student understanding using a variety of instructional methods and features The authors had seven objectives in writing this text 1 To teach students the language of algebra how to read write speak and think mathematically Graphics examples and Study Sets throughout text emphasize key phrase and translation 2 To use a group of fundamental algebraic concepts as the foundation of the text introduce equations variables problem solving functions and graphing in Chapter 1 and constantly reinforce those major concepts of algebra throughout the text Key Concept feature 3 To aid student comprehension and confidence by introducing concepts in one context and revisiting throughout the book in other contexts coverage of problem solving is one good example 4 To gain and keep students attention through creative applications See any Applications section in Study Sets an interactive approach to instruction Self Checks and a visually appealing design 5 To have top notch problem sets purposefully named Study Sets not Problem or Exercise Sets that break learning into smaller pieces so that students do not become overwhelmed 6 To constantly show how the material being studied can be used to solve real world problems 7 To blend traditional and reform instructional approaches from vocabulary practice and well defined pedagogy to place an emphasis on problem solving reasoning communicating and technology Study Sets

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Checkpoints with Readings Jack Page,1996-09

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