

ARE YOU READY? PAGE 565

1. D

2. A

3. B

4. F

5. C

$$6. \frac{x^{11}y^2}{x^4y^3}$$

$$x^{11-4}y^{2-3}$$

$$x^7y^{-1}$$

$$\frac{x^7}{y}$$

$$7. \left(\frac{3x^2y}{z}\right)^4$$

$$\frac{(3x^2y)^4}{z^4}$$

$$\frac{81x^8y^4}{z^4}$$

$$8. (x^2)^{-2}$$

$$x^{2(-2)}$$

$$x^{-4}$$

$$\frac{1}{x^4}$$

$$9. (3x^2y)(6xy^2)$$

$$(3 \cdot 6)(x^2y \cdot xy^2)$$

$$18x^3y^3$$

$$10. (2x^{-4})^3$$

$$(2^3)(x^{-4})^3$$

$$8x^{-12}$$

$$\frac{8}{x^{12}}$$

$$11. \frac{12x^0}{12(1)}$$

$$\frac{12}{12}$$

12. $5x^2 + 6x + 6$

13. $-7x + 12$

14. $4x^2 - 3x$

$$15. 3a^2 = 3 \cdot a \cdot a$$

$$12a = 2 \cdot 2 \cdot 3 \cdot a$$

The GCF of $3a^2$ and $12a$ is $3a$.

$$16. c^2d = c \cdot c \cdot d$$

$$cd^2 = c \cdot d \cdot d$$

The GCF of c^2d and cd^2 is cd .

$$17. 16x^4 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot x \cdot x \cdot x \cdot x$$

$$40x^3 = 2 \cdot 2 \cdot 2 \cdot 5 \cdot x \cdot x \cdot x$$

The GCF of $16x^4$ and $40x^3$ is $8x^3$.

18. $(x - 5)(x + 1)$

19. $(x - 4)(x + 6)$

20. $(x + 4)(x + 8)$

21. $(x + 3)(x + 6)$

22. $(x - 3)^2$

23. $(x - 10)(x + 2)$

24. $5x^2 = 45$

25. $4x^2 - 7 = 93$

$$x^2 = 9$$

$$x = \pm\sqrt{9} = \pm 3$$

$$4x^2 = 100$$

$$x^2 = 25$$

$$x = \pm\sqrt{25} = \pm 5$$

26. $2(x - 2)^2 = 32$

$$(x - 2)^2 = 16$$

$$x - 2 = \pm\sqrt{16}$$

$$x = 2 \pm 4$$

$$x = 6 \text{ or } -2$$

8-1 VARIATION FUNCTIONS,
PAGES 569–576

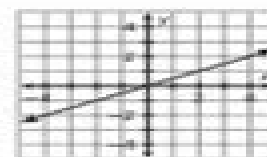
CHECK IT OUT!

$$1. y = kx$$

$$6.5 = 13x$$

$$0.5 = k$$

$$y = 0.5x$$



$$2. \frac{P_1}{S_1} = \frac{P_2}{S_2}$$

$$\frac{18}{1.5} = \frac{75}{s}$$

$$18s = 75(1.5)$$

$$s = 6.25$$

The side length s is 6.25 in.

$$3. L = k\pi r$$

$$63\pi = k(3.5)(18)$$

$$\pi = k$$

The radius r is 1.6 m.

$$L = \pi r f$$

$$8\pi = \pi(15)$$

$$1.6 = r$$

$$4. y = \frac{k}{x}$$

$$4 = \frac{k}{10}$$

$$k = 40$$

$$y = \frac{40}{x}$$



$$5. t = \frac{k}{v} = \frac{1250}{15} = \frac{250}{3}$$

It would take them $83\frac{1}{3}$ hours to build a house.

6a. Inverse

b. Direct

$$7. V = \frac{kT}{P} = \frac{0.05(400)}{1} = 20$$

The volume is 20 L.

THINK AND DISCUSS

1. Possible answer: A direct variation equation is in the form $y = mx + b$, with $m = k$ and $b = 0$.
2. Possible answer: The length varies inversely as the width, with a constant of variation of 400.

Algebra Connections Volume One Answer Key Ch 3

Benjamin Franklin Finkel



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1. Understanding the eBook Algebra Connections Volume One Answer Key Ch 3
 - The Rise of Digital Reading Algebra Connections Volume One Answer Key Ch 3
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Connections Volume One Answer Key Ch 3
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Algebra Connections Volume One Answer Key Ch 3
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Connections Volume One Answer Key Ch 3
 - Personalized Recommendations
 - Algebra Connections Volume One Answer Key Ch 3 User Reviews and Ratings
 - Algebra Connections Volume One Answer Key Ch 3 and Bestseller Lists
5. Accessing Algebra Connections Volume One Answer Key Ch 3 Free and Paid eBooks
 - Algebra Connections Volume One Answer Key Ch 3 Public Domain eBooks
 - Algebra Connections Volume One Answer Key Ch 3 eBook Subscription Services
 - Algebra Connections Volume One Answer Key Ch 3 Budget-Friendly Options
6. Navigating Algebra Connections Volume One Answer Key Ch 3 eBook Formats

- ePub, PDF, MOBI, and More
 - Algebra Connections Volume One Answer Key Ch 3 Compatibility with Devices
 - Algebra Connections Volume One Answer Key Ch 3 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Algebra Connections Volume One Answer Key Ch 3
 - Highlighting and Note-Taking Algebra Connections Volume One Answer Key Ch 3
 - Interactive Elements Algebra Connections Volume One Answer Key Ch 3
8. Staying Engaged with Algebra Connections Volume One Answer Key Ch 3
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra Connections Volume One Answer Key Ch 3
9. Balancing eBooks and Physical Books Algebra Connections Volume One Answer Key Ch 3
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra Connections Volume One Answer Key Ch 3
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra Connections Volume One Answer Key Ch 3
- Setting Reading Goals Algebra Connections Volume One Answer Key Ch 3
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra Connections Volume One Answer Key Ch 3
- Fact-Checking eBook Content of Algebra Connections Volume One Answer Key Ch 3
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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