CHAPTER 8 Solutions Key
Rational and Radical Functions

ARE YOU READY? PAGE 565

1. D
2. A
3. B
4. F
5. C

6. $\dfrac{x^{11}y^2}{x^4y^7}$

$x^{11-4}y^{2-7}$

x^7y^{-5}

$\dfrac{x^7}{y^5}$

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

$\dfrac{\left(3x^2y\right)^4}{z^4}$

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

8. $\left(x^3\right)^{-2}$

$x^{3(-2)}$

x^{-6}

$\dfrac{1}{x^6}$

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

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

$18x^3y^3$

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

$\left(2^3\right)\left(x^{-4}\right)^3$

$8x^{-12}$

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

11. $12x^0$

$12(1)$

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. $5x^2 = 45$

$x^2 = 9$

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

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

$4x^2 = 100$

$x^2 = 25$

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

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

$(x - 2)^2 = 16$

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

$x = 2 \pm 4$

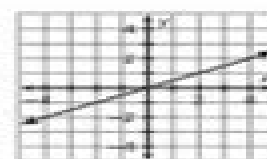$x = 6 \text{ or } -2$

8-1 VARIATION FUNCTIONS, PAGES 569–576

CHECK IT OUT!

1. $y = kx$

$6.5 = 13x$

$0.5 = k$

$y = 0.5x$

2. $\dfrac{P_1}{s_1} = \dfrac{P_2}{s_2}$

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

$18s = 75(1.5)$

$s = 6.25$

The side length s is 6.25 in.

3. $L = kr^2$ $L = kr^2$

$63\pi = k(3.5)(18)$ $8\pi = k r(5)$

$\pi = k$ $1.6 = r$

The radius r is 1.6 m.

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

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

$k = 40$

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

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

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

6a. inverse   b. direct

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

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.

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Jianjun Gao

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