

Answer Key

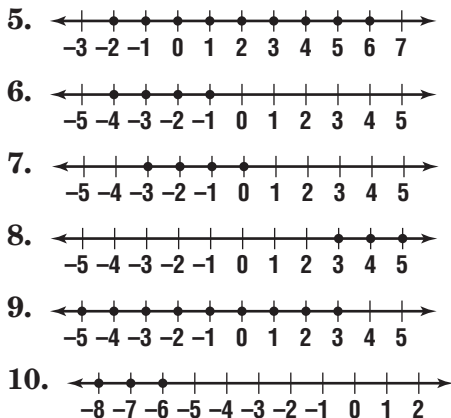
Lesson 1-6

$$\begin{aligned}
 19. \quad & 6(g + a) + 3g = 6g + 6a + 3g && \text{distributive property} \\
 & = 6g + 3g + 6a && \text{commutative property (+)} \\
 & = (6g + 3g) + 6a && \text{associative property (+)} \\
 & = (6 + 3)g + 6a && \text{distributive property} \\
 & = 9g + 6a && \text{substitution (=)}
 \end{aligned}$$

Chapter 1 Review

1. $5 \cdot 1 + 6 \div 2 = 8$
2. $3 \cdot (8 + 2) = 30$
3. $9 \div (5 - 8 \div 4)^2 = 1$
4. $2x + 7x + 6y + 8x = 17x + 6y$
5. $5(n + 1) + 3(n + 6) = 8n + 23$
6. $6 + 5 = 5 + 6$; commutative property (+)

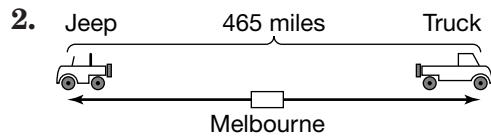
Lesson 2-1



Chapter 2 Review

- 1a. 1°C
- 1b. 5°C
- 1c. -7°C
- 1d. 3°C
- 1e. -2°C
- 1f. 21°C
2. Berlin: 34°F ; London: 42°F ; Montreal: 18°F ; Paris: 38°F ; Beijing: 28°F ; Sao Paulo: 74°F
3. Sao Paulo, Brazil, is in the southern hemisphere, and December is summertime in the southern hemisphere.
4. Answers will vary.

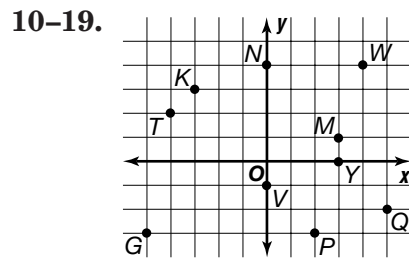
Lesson 3-9



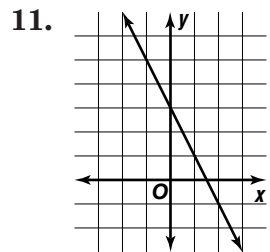
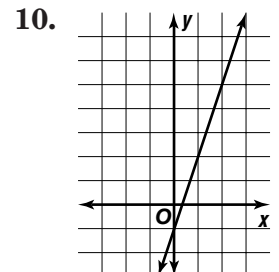
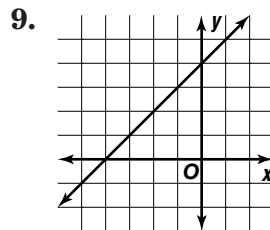
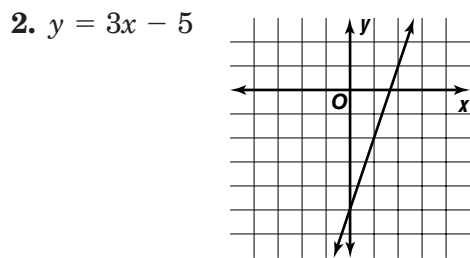
Chapter 3 Review

1. -3
 2. 5
 3. -12
 4. 6
 5. 7
 6. -30
 7. -7
 8. 31
 9. -9
 10. 4
 11. 8
- Solution to puzzle: algebra is fun

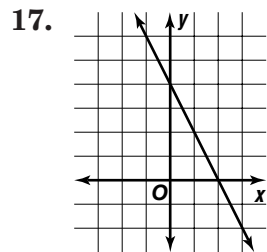
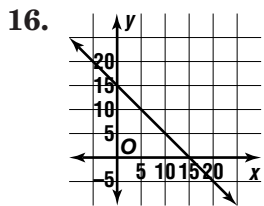
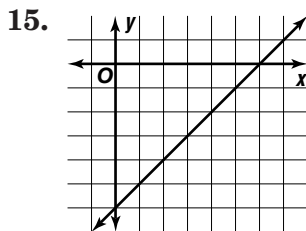
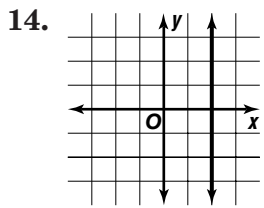
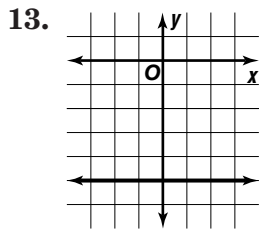
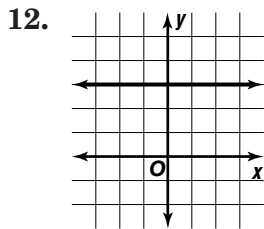
Lesson 4-1



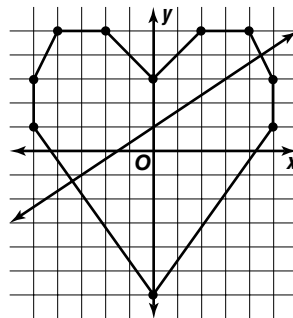
Lesson 4-5



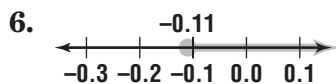
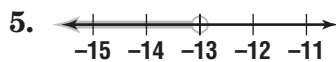
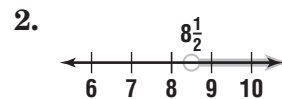
Answer Key



10. $y = -x + 3$



Lesson 6-1



Chapter 4 Review

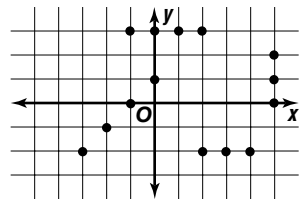
Clue 1: $D = \{0, 5\}$; $R = \{1, 3\}$

Clue 2: $\{(0, 5), (-2, 4), (-2, 3)\}$

Clue 3: The points are: $(-2, -1)$, $(-1, 0)$, and $(2, 3)$.

Clue 4: no; yes; yes

Clue 5: 4



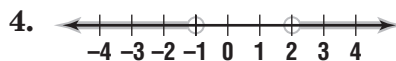
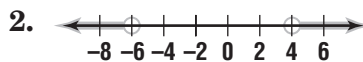
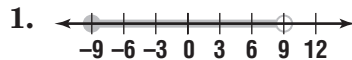
Chapter 5 Review

1. $m = -2$ 2. $m = 0$ 3. undefined slope

4. $y = 5$ 5. $x = -5$ 6. Sample answer:

$y - 3 = 2(x + 5)$ 8. $m = -\frac{7}{5}$

Lesson 6-4



Answer Key

Lesson 6-5

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Lesson 6-6

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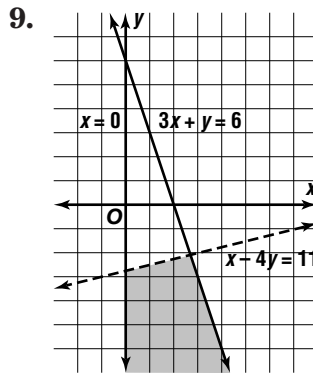
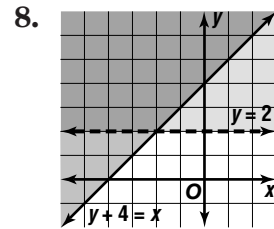
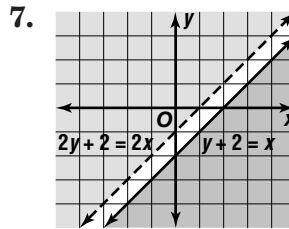
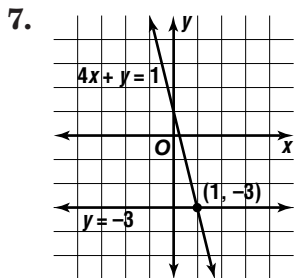
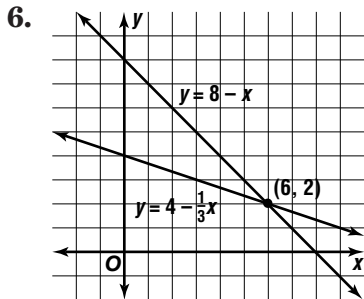
Lesson 7-1

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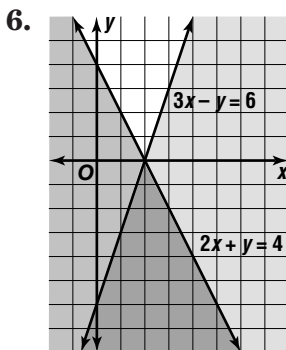
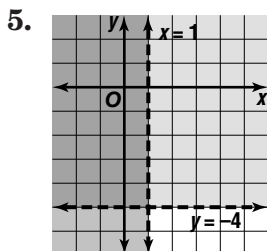
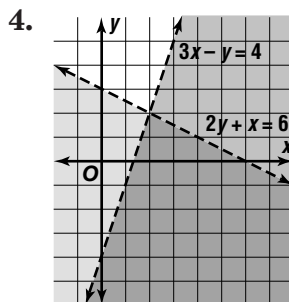
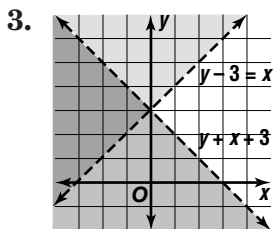
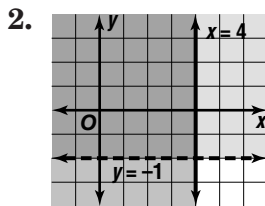
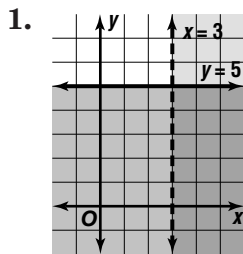
Chapter 6 Review

- $x \leq 4$
 - $t > 4$
 - $n < 4$
 - $w < 5$ and $w > -3$
 - $p \geq 5$ or $p \leq -3$
- NY YANKEES TICKETS

Answer Key



Lesson 7-5



Chapter 7 Review

Gold: $(-2, 4)$; Silver: $(4, -3)$; Diamonds: no solution; Jewels: $(-1, 0)$; The gold is nearest to the starting point, $(0, 5)$.

Chapter 8 Review

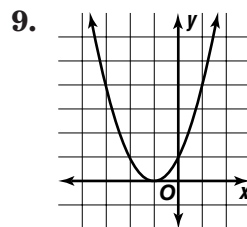
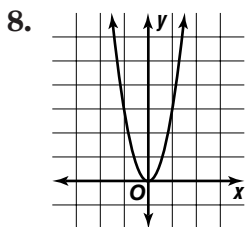
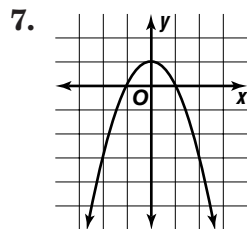
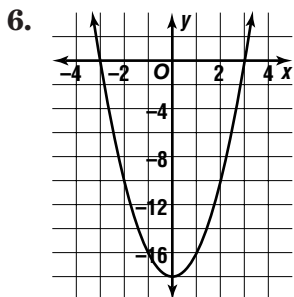
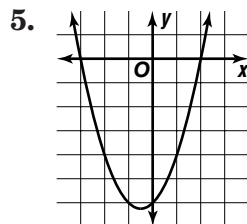
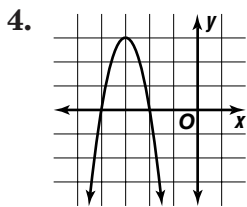
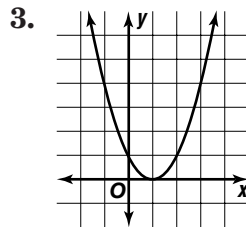
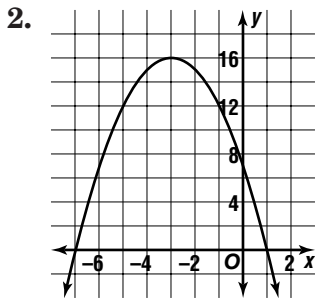
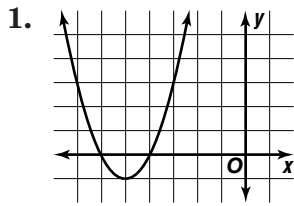
- $18x^7$
 - $2x$
 - $2x^3 - 6x^2 - 2x$
 - $2x^3 + 2x$
 - $x + 5$
 - $x^2 + 11x + 30$
 - 6.5×10^2
 - 2.47×10^6
- 2,470,000; \$24,700

Chapter 9 Review

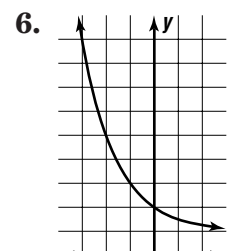
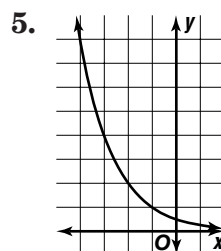
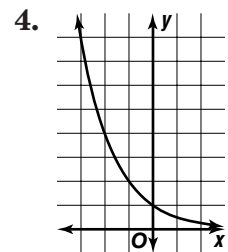
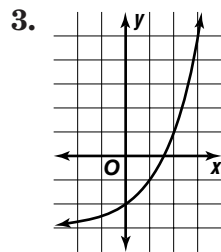
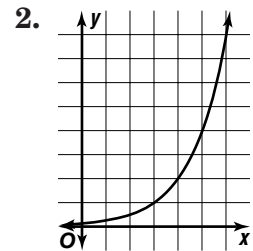
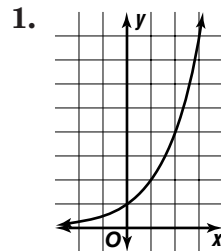
- $9x(2 - y)$
 - $2x(2x^2 + 3)$
 - $(x - 8)(x + 8)$
 - $(x - 4)(x + 4)$
 - $2(x - 4)(x + 4)$
 - $(x + 2)(x + 4)$
 - $(x - 4)(x - 2)$
 - $(x - 3)(x + 4)$
 - $(x - 4)(x + 3)$
 - $(x + 2)(x + y)$
 - $(x + 4)(y - x)$
 - $(x + 4)(x + 2y)$
- The outdated technology: EIGHT TRACK

Answer Key

Lesson 10-1

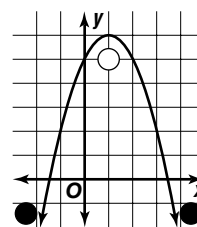


Lesson 10-5

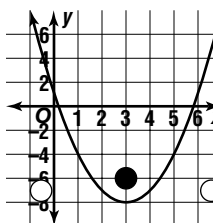


Chapter 10 Review

Hole 1: $y = -x^2 + 2x + 5$

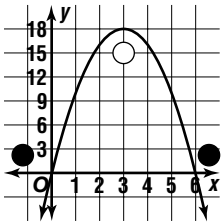


Hole 2: $y = x^2 - 6x + 1$

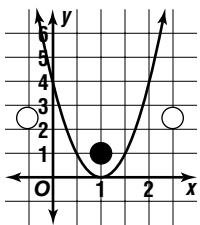


Answer Key

Hole 3: $y = -2x^2 + 12x$



Hole 4: $y = 4x^2 - 8x + 4$

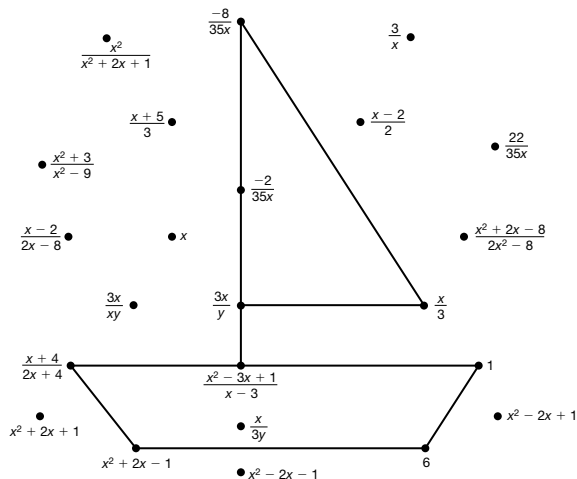


Chapter 11 Review

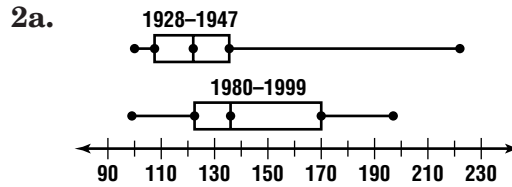
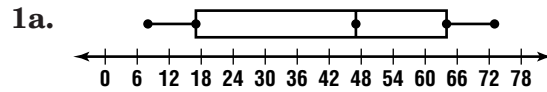
- 8 (X—Leaky Roof)
- $4|x|\sqrt{5}$
- $6b^2|c|\sqrt{2ab}$
- 3 (X—Leaky Roof)
- $\sqrt{6}$
- $-3\sqrt{5} + 4\sqrt{7}$
- 0 (X—Leaky Roof)
- $3 + 2\sqrt{3}$
- -32 (X—Leaky Roof)
- $\frac{30 - 5\sqrt{3}}{33}$

Chapter 12 Review

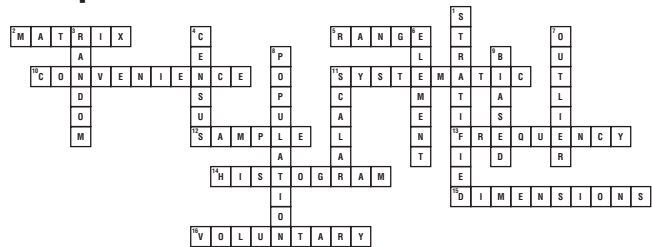
- $\frac{3x}{y}$
- $\frac{x}{3}$
- $\frac{x+4}{2x+4}$
- 1
- $x^2 + 2x - 1$
- 6
- $\frac{-8}{35x}$
- $\frac{x^2 - 3x + 1}{x - 3}$



Lesson 13-5

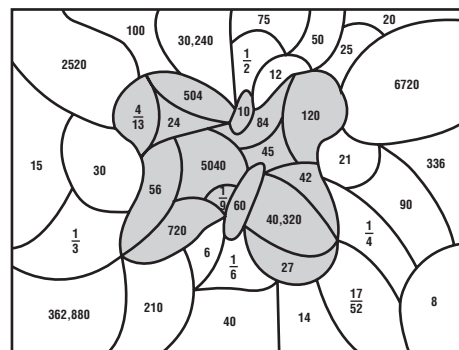


Chapter 13 Review



Chapter 14 Review

- 120
- 40,320
- 5040
- 42
- 10
- 56
- 24
- 60
- 720
- 504
- 45
- 84
- $\frac{4}{13}$
- $\frac{1}{9}$



a butterfly