

Answers continued

7. a. $\frac{3}{2}$ b. 1 c. $\overline{DG} \cong \overline{EF}$ because opposite sides of rectangle are congruent.
 $m\angle DGF = m\angle EFG = 90^\circ$ by def. of a rectangle.
 $m\angle EFC + m\angle EFG = 180^\circ$ and
 $m\angle DGA + m\angle DGF = 180^\circ$ because linear angles are supplementary. $m\angle DGA + 90^\circ = 180^\circ$ and $m\angle EFC + 90^\circ = 180^\circ$ by Substitution Prop. of Equality. $m\angle DGA = m\angle EFC = 90^\circ$ by Subtraction Prop. of Equality.
 $m\angle A = m\angle B = m\angle C = 60^\circ$ because regular triangles have 3 congruent angles.
 $\triangle ADG \cong \triangle CEF$ by AAS.

Section 6.7

1. D 2. B 3. A 4. C 5. E 6. D 7. A
 8. a. 20 ft² b. 92 in.² c. 11.25 ft²

Cumulative Review

Chapters 1-6

1. B 2. C 3. C 4. D 5. A 6. B
 7. A 8. C 9. a. If you stay up late, then you are tired. b. If you are tired, then you are cranky. c. $\sim q \rightarrow \sim p$; if you are not tired, then you did not stay up late. d. If you stay up late, then you are cranky. 10. C 11. E 12. D
 13. B 14. C 15. A 16. B 17. D 18. C
 19. A 20. D 21. B 22. B 23. E 24. D
 25. E 26. C 27. C 28. D 29. A 30. D
 31. B 32. B 33. B

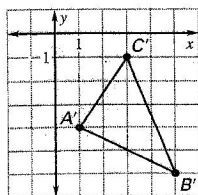
Chapter 7

Section 7.1

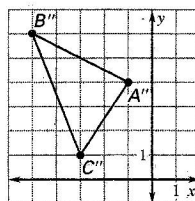
1. D 2. C 3. B 4. D 5. B 6. A

Section 7.2

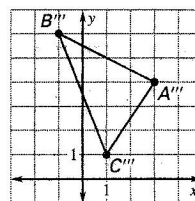
1. D 2. B 3. E 4. C 5. B 6. E 7. A
 8. a. $A'(1, -4)$, b. $\overline{A'B'}$
 $B'(5, -6)$, $C'(3, -1)$



- c. $A''(-1, 4)$,
 $B''(-5, 6)$, $C''(-3, 1)$



- d. $A'''(3, 4)$,
 $B'''(-1, 6)$, $C'''(1, 1)$



- e. (1, 0)

Section 7.3

1. B 2. C 3. D 4. E 5. C 6. A 7. A

Section 7.4

1. C 2. D 3. B 4. E 5. D 6. B

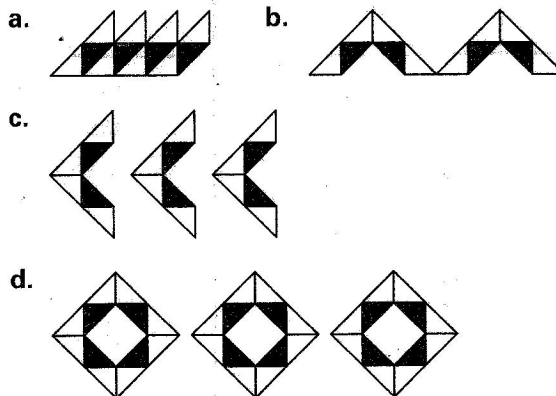
Section 7.5

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

Section 7.6

1. C 2. B 3. E 4. E 5. B 6. A

7. Sample answers:



Chapter 8

Section 8.1

1. B 2. C 3. B 4. D 5. E 6. E 7. B
 8. C 9. A

Section 8.2

1. D 2. C 3. C 4. D 5. E 6. D 7. C
 8. A 9. B 10. C

Section 8.3

1. C 2. B 3. D 4. E 5. D 6. A 7. C
 8. C

Answers continued

Section 8.4

1. C 2. B 3. D 4. A 5. E 6. a. 6.4
b. 3.75 c. $\frac{5}{13}$ d. 20.3 e. Sample answer:
Use parallel lines to show that two pairs of corresponding angles are congruent. Then by the AA Similarity Postulate, the two triangles are similar.

Section 8.5

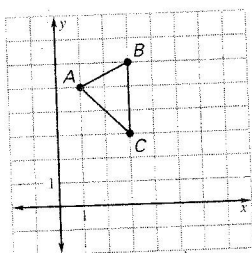
1. A 2. C 3. D 4. E 5. B 6. C

Section 8.6

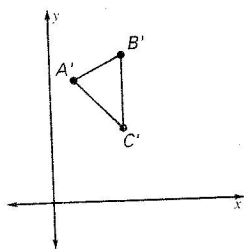
1. D 2. E 3. B 4. A 5. C 6. B 7. A
8. A

Section 8.7

1. A 2. E 3. C 4. B 5. D
6. a.

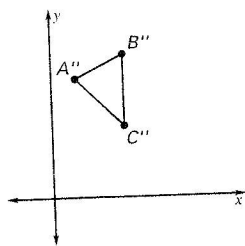


b.



- $A'(2, 10)$, c. 6
 $B'(6, 12)$,
 $C'(6, 6)$

d.



- $A''(\frac{1}{2}, \frac{5}{2})$,
 $B''(\frac{3}{2}, 3)$,
 $C''(\frac{3}{2}, \frac{3}{2})$

- e. $\sqrt{2}$ f. 4

Chapter 9

Section 9.1

1. C 2. D 3. E 4. A 5. B 6. C 7. C
8. a. 9.8 ft b. 17.8 ft c. 12.3 ft
d. $\triangle HTG \sim \triangle AHG \sim \triangle ATH$

Section 9.2

1. D 2. D 3. B 4. C 5. D 6. D 7. A
8. A

Section 9.3

1. C 2. E 3. B 4. A 5. C 6. A 7. D
8. A 9. B

Section 9.4

1. D 2. C 3. A 4. E 5. C 6. C 7. B
8. A
9. a. $5\sqrt{2}$ units b. $\frac{5\sqrt{2}}{2}$ units c. $\frac{5}{2}$ units
d. 5 units e. $\frac{5\sqrt{3}}{2}$ units f. 32.2 square units

Section 9.5

1. A 2. C 3. B 4. E 5. D 6. B 7. C
8. B 9. B

Section 9.6

1. D 2. C 3. C 4. B 5. E 6. A 7. B
8. A 9. B

Section 9.7

1. D 2. A 3. C 4. E 5. B 6. A 7. B
8. E
9. a. about 680 mi/h; 48.6° NE from horizontal
b. about 361 mi/h; 33.8° NW from horizontal
c. 735 mi/h; 43.9° NE from horizontal
d. 297 mi/h; 42.2° NW from horizontal

Chapter 10

Section 10.1

1. B 2. D 3. B 4. E 5. D 6. A 7. E
8. a. (2, 3), 3 b. (5, 0), 3 c. (2, 0), (5, 3)
d. external

Answers continued

Section 10.2

1. C 2. B 3. D 4. D 5. B 6. C 7. E
8. C 9. A 10. C

Section 10.3

1. D 2. B 3. C 4. A 5. C 6. D 7. B
8. E 9. C 10. B

Section 10.4

1. B 2. C 3. E 4. A 5. D 6. C 7. B
8. D 9. A 10. B

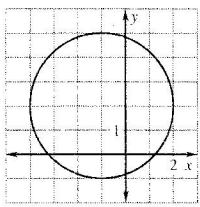
Section 10.5

1. A 2. B 3. E 4. D 5. D 6. A 7. C
8. B 9. A

Section 10.6

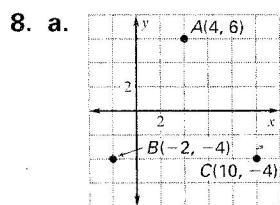
1. E 2. C 3. D 4. C 5. D 6. B 7. A
8. D

9. a. -1 b. $(x + 1)^2 + (y - 2)^2 = 9$

- c.  d. Sample answers:
 $(-1, 5); (0, 0); (5, 0)$

Section 10.7

1. B 2. E 3. C 4. E 5. A 6. E 7. D



b. $A: (x - 4)^2 + (y - 6)^2 = 100$

$B: (x + 2)^2 + (y + 4)^2 = 36$

$C: (x - 10)^2 + (y + 4)^2 = 36$

- c. $(4, -4)$

Chapter 11

Section 11.1

1. B 2. A 3. C 4. D 5. D 6. C 7. B
8. E 9. B 10. B

Section 11.2

1. E 2. B 3. B 4. A 5. C 6. C 7. B
8. B

Section 11.3

1. B 2. D 3. C 4. B 5. D 6. A 7. E
8. a. 1200 ft² b. 1500 ft² c. 4:5 d. 240 ft
e. \$1440

Section 11.4

1. B 2. A 3. D 4. C 5. A 6. E 7. D
8. D 9. A

Section 11.5

1. E 2. D 3. B 4. B 5. E 6. C 7. D
8. B 9. B

Section 11.6

1. D 2. D 3. A 4. B 5. E 6. C 7. A

Chapter 12

Section 12.1

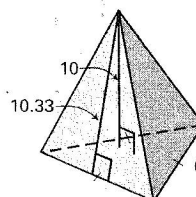
1. E 2. C 3. C 4. B 5. B 6. C 7. E
8. A

Section 12.2

1. D 2. B 3. B 4. A 5. C 6. D 7. E
8. A 9. A

Section 12.3

1. C 2. B 3. E 4. D 5. A 6. E 7. E
8. a.

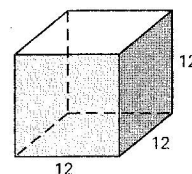
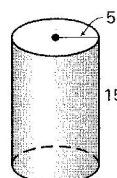


- b. 92.97 in.²
c. 108.57 in.²
d. 1:4

Section 12.4

1. C 2. B 3. D 4. A 5. B 6. E 7. B
8. E

9. a.



Answers continued

- b. 1178.1 in.^3 c. 1728.0 in.^3
 d. about 5.1 gallons

Section 12.5

1. C 2. D 3. A 4. B 5. A 6. A

Section 12.6

1. D 2. B 3. D 4. B 5. A 6. C 7. B
 8. A

Section 12.7

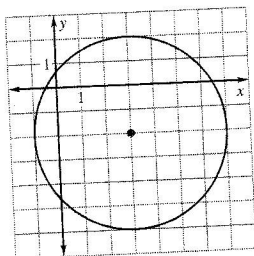
1. D 2. A 3. C 4. B 5. C 6. A
 7. a. 3:4 b. 20 in. c. 871.1 in.^3
 d. 101.8 in.^2

Cumulative Review

Chapters 1-12

1. E 2. D 3. E 4. B 5. C 6. A 7. E
 8. D 9. A 10. C 11. B 12. D 13. B
 14. B 15. E 16. A 17. C 18. D 19. D
 20. D 21. E 22. A 23. B 24. B
 25. D 26. B 27. A
 28. a. 3 b. $(x - 3)^2 + (y + 2)^2 = 16$

c.



29. C 30. E 31. B 32. E 33. C 34. C
 35. D 36. B 37. B 38. A 39. A