

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

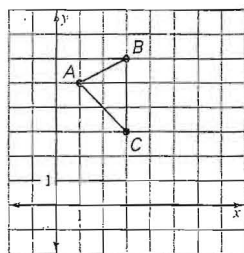
Section 8.6

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

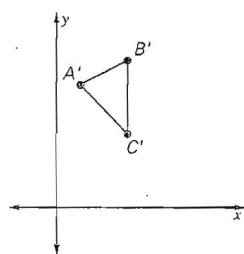
Section 8.7

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

6. a.

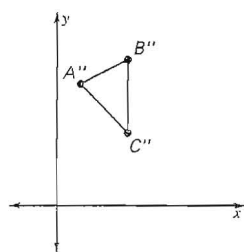


b.



- $A'(2, 10)$, 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

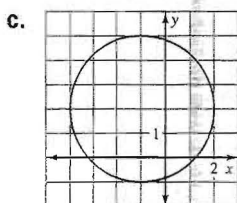
1. B 2. C 3. E 4. A 5. D 6. C 7. B
8. D 9. A 10. B

Section 10.5

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

Section 10.6

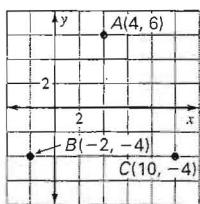
1. E 2. C 3. D 4. C 5. D 6. B 7. A
8. D
9. a. -1 b. $(x + 1)^2 + (y - 2)^2 = 9$



- 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
8. a.



- 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

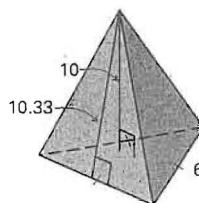
1. E 2. C 3. C 4. B 5. B 6. C 7. E
8. A

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.

