

CP1 GEOMETRY

CHAPTER 10

CIRCLES

HOMEWORK ASSIGNMENTS

Remember to show your work for all problems. Showing only the answer is NOT acceptable if work is required to do the problem. If you can't finish a problem, at least show me that you attempted it.

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CP1 Geometry
Chapter 10 Answer Key

Assignment #1, page 374

1. $C=19.6\pi$ $A= 96.04\pi$
 2a. 90 b. 2.5π or ~ 7.85
 4a. (0,4) b. 4π or ~ 12.57
 5. 12.5π or ~ 39.27 6. 45
 7a. 40 b. 40 8. 130; 25
 9. (3,3) 11a. (-3, 14) b. -1
 12a. 120 b. 9π c. 27
 15. $2\frac{2}{5}$

page 501

- 1a. 65.97 mm 2a. 28 2b 49.97
 3a. 4π 3b. 5π
 6a. 3π 6b. $12 + 3\pi$ 7. 138π
 9a. $4\pi\sqrt{3}$ 9b. 6π 9c. 9π
 10. 1257 cm 12. 13π
 13. 96.5 m; 71.4 m 14. $12 + 9\pi$
 15. 10π in.

Assignment #2, page 443

5. 8 mm
 6. 16 cm
 8. $C \approx 24.5$ cm; $A \approx 47.8$ sq cm
 11. 8 m
 12. 15 cm
 14. 20 cm
 16. (1, 9.5); ~ 8.5
 17a. 13 b. 5 c. 24

Assignment #3, page 447

1. same distance
 2. 8
 6a. 8 cm b. circle
 7a. ~ 283.53 sq mm b. 59.69 mm
 11a. 8 b. 5
 12. $2\sqrt{3}$
 13. 10

Assignment #4, page 454

- 1a. 6 b. 2 c. 5 d. 4 e. 3 f. 7 g. 1
 3a. 90 b. 130 c. 230 d. 180 e. 220
 4. 130
 9a. $1/45$ b. $2/3$ c. $2/5$ d. $7/8$
 10a. 216 b. 200 c. 252
 11. 132
 12. 12
 13a. 15π b. 18π
 18a. 60 18b. 72 18c. 45
 19a. $5\sqrt{2}$ 19b. 135

Assignment #5, page 463

1. 17 cm
 2. 12
 5a. $Q=(16,0)$ $S=(38,0)$ b. 3
 6. 2.5
 10. 23
 11a. $2\sqrt{13}$ b. $-3/2$
 12. ~ 12.65
 13a. 12 cm b. Yes
 16. 3, 5, 8

Assignment #6, page 474

- 5a. 140 b. 80 c. 20 d. 81.5 e. 100
 6a. 104 b. 68 c. 90 d. 33
 7. 85° ; 23°
 8. 57.5°
 9. 10°
 10. 76°
 11. 81°
 12. 40°
 13. 125°
 14. 110°
 15. 75
 16. 20
 20. 45°
 22. 42; 48; 132
 25. 25°
 26. 52°

Assignment #7, page 481

3. 10 mm
 4a. 17° b. 81.5°
 5. 97°
 6a. Yes b. 6 c. No
 7. 137°
 8a. Must b. Could c. Must d. must e. Could
 f. Cannot
 9. 42
 10. 1.25 m
 11a. 6 cm b. $8 + 6\sqrt{3}$
 12. 122
 13. 15
 14. $10\sqrt{2}$
 15. $10\sqrt{3}$
 17a. 39° b. 81°

Assignment #8, page 489

1. 113, 76 2. 105, 75 5. No
6a. 72 6b. 144 6c. 60
6d. 120 6e. 180
7a. Square 7b. Isosceles
9a. 65 9b. 85 9c. 85 9d. 95
10. 24 12a. (-9.5, .5)
12b. $49\pi/4$ 12c. $\frac{7\sqrt{2}}{2}$
14. 18 15. 116 or 80 17. Yes, No, Yes

Assignment #9, page 505

1. 94, 94, 43 2. 66; 32
4. 13, 8.5, 7 5. 125
6. 40; 20 7a. $\frac{3\pi}{2}$
7b. $12 + 1.5\pi$ 8a. 4 8b. C
12. 4.25 14. 8
17. 45; 105; 135; 75 18. 140; 30; 10
19. 20 20. 110; 50
22a. compare 22b. 60
22c. 60 22d. $15\sqrt{3}$
24. $\frac{433\pi}{4}$ 25. 258 cm