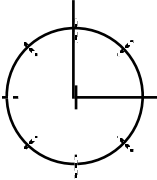
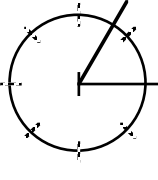
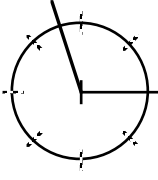
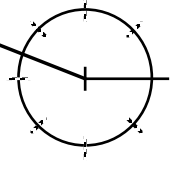
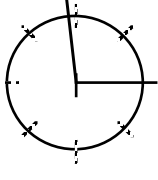
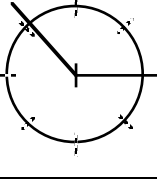
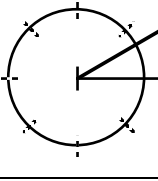
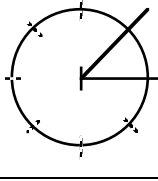
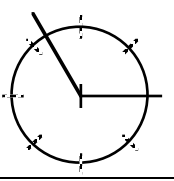
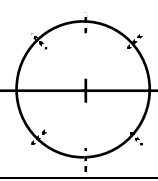
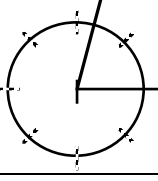
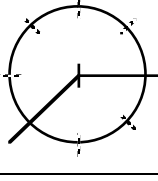


Chapter 1, Essential Geometry

ODD Focus Exercise Answers

Section 1.1 Basic Definitions of Geometry

1. 90°	3. 60°	5. 108°	7. 160°	9. 96°
				
11. 132°	13. $\frac{1}{12}$	15. $\frac{1}{8}$	17. $\frac{1}{3}$	19. $\frac{1}{2}$
				
21. $\frac{5}{24}$	23. $\frac{5}{8}$	25. $57^\circ 53' 55''$	27. $153^\circ 07' 53''$	
		29. 90°	31. $33^\circ 15' 13''$	
		33. $11^\circ 42' 54''$	35. $60^\circ 45' 28''$	

Section 1.2 Angles and Angle Measure

- | | |
|---|---|
| <p>1a) Corresponding angles; congruent</p> <p>c) Vertical angles; congruent</p> <p>e) Corresponding angles; congruent</p> <p>g) Alternate exterior angles; congruent</p> | <p>b) Alternate interior angles; congruent</p> <p>d) Adjacent angles; not congruent</p> <p>f) Alternate interior angles; congruent</p> |
| <p>3a) $m\angle XYZ = 30^\circ$</p> <p>c) $m\angle XYZ = 56^\circ 13'$</p> | <p>b) $m\angle XYZ = 54.2^\circ$</p> <p>d) $m\angle XYZ = 7^\circ 44' 24''$</p> |
| <p>5a) $m\angle ABD = 28^\circ$</p> <p>c) $m\angle ABD = 30.95^\circ$</p> <p>e) $m\angle ABD = 24^\circ 16' 09''$</p> <p>g) $m\angle ABD = 18^\circ 55' 31''$</p> | <p>b) $m\angle XYW = 74^\circ$</p> <p>d) $m\angle XYW = 66.6^\circ$</p> <p>f) $m\angle XYW = 78^\circ 03' 21''$</p> <p>h) $m\angle XYW = 74^\circ 38' 55''$</p> |

Section 1.3 Triangles

1. Yes 3. No 5. Yes 7. $m\angle C = 69^\circ$; acute triangle

9. $m\angle C = 48^\circ 52'$; obtuse triangle

11:

a) No. (Answers may vary. One answer is: There are no 90° angles in an equilateral triangle.)

b) Yes. c) Yes. d) No. An oblique triangle has no right angle.

13. $m\angle y = 48^\circ$; $m\angle z = 84^\circ$

15. $m\angle x = 73^\circ$; $m\angle y = 73^\circ$

17. $m\angle y = 53^\circ 37' 49''$; $m\angle z = 72^\circ 44' 22''$

19. a, c, b 21. F, H, G

23. $c = 2\sqrt{13}$

25. $c = 3\sqrt{2}$

27. $a = 5$

29. $c = 3\sqrt{3}$

31. $a = 3, b = 4, c = 5$

33. $a = 21, b = 20, c = 29$

Section 1.4 Circles

1. $s = \frac{8\pi}{9}$

3. $s = 2\pi$

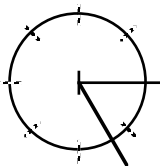
5. $s = \frac{\pi}{6}$

7. $\theta = 45^\circ$

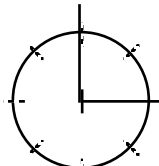
9. $\theta = 90^\circ$

11. $\theta = 90^\circ$

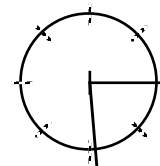
13. 300°



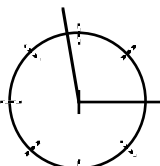
15. 90°



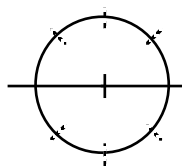
17. 275°



19. -260°



21. -180°



23. -230°

