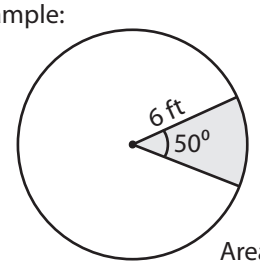
Name : _____ Score : _____

Sheet 1

Area of a Sector

Example:



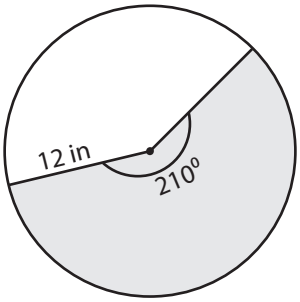
$$\text{Area of a sector} = \frac{\text{central angle}}{360^0} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^0}$$

$$= \frac{50^0 \times 3.14 \times 6 \times 6}{360^0}$$

$$= \mathbf{15.7\ ft^2}$$

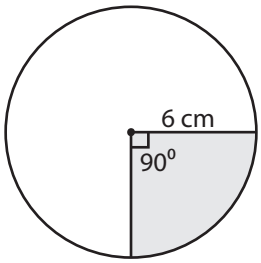
Find the area of each shaded region. Round the answer to two decimal places. (use π=3.14)

1)



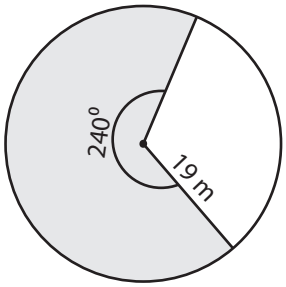
Area = _____

2)



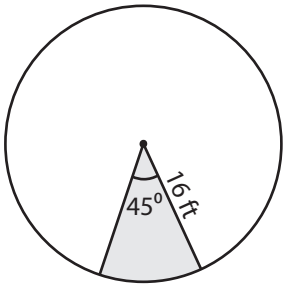
Area = _____

3)



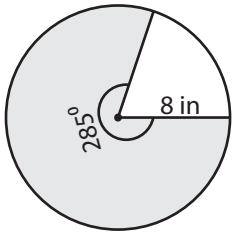
Area = _____

4)



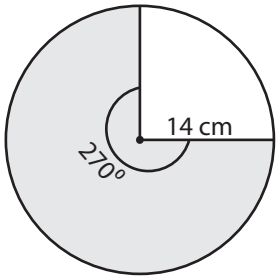
Area = _____

5)



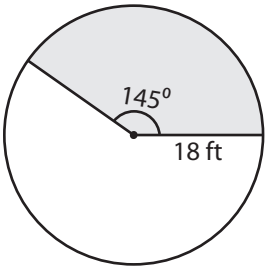
Area = _____

6)



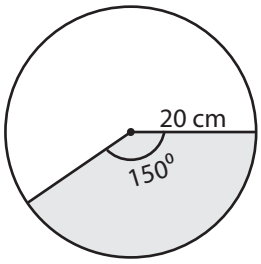
Area = _____

7)



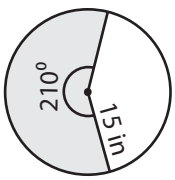
Area = _____

8)



Area = _____

9)



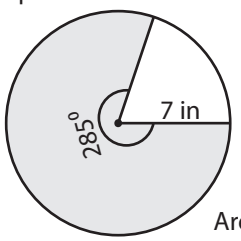
Area = _____

Name : _____ Score : _____

Sheet 2

Area of a Sector

Example:



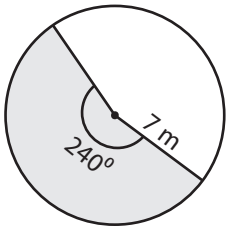
$$\text{Area of a sector} = \frac{\text{central angle}}{360^0} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^0}$$

$$= \frac{285^0 \times 3.14 \times 7 \times 7}{360^0}$$

$$= \mathbf{121.81\ in^2}$$

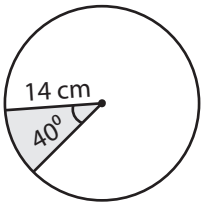
Find the area of each shaded region. Round the answer to two decimal places. (use π=3.14)

1)



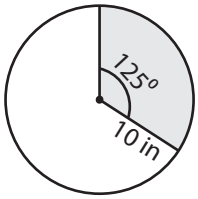
Area = _____

2)



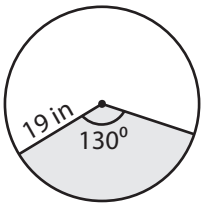
Area = _____

3)



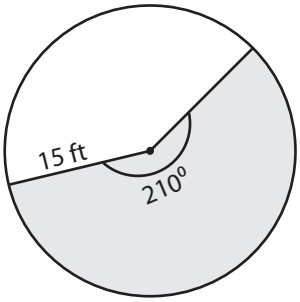
Area = _____

4)



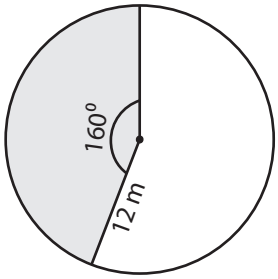
Area = _____

5)



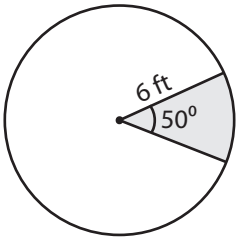
Area = _____

6)



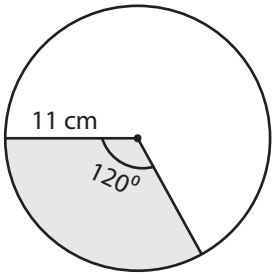
Area = _____

7)



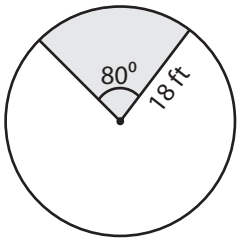
Area = _____

8)



Area = _____

9)



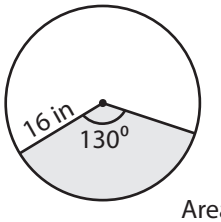
Area = _____

Name : _____ Score : _____

Sheet 3

Area of a Sector

Example:



Area=?

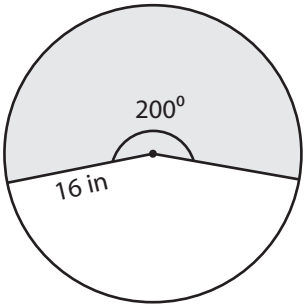
$$\text{Area of a sector} = \frac{\text{central angle}}{360^0} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^0}$$

$$= \frac{130^0 \times 3.14 \times 16 \times 16}{360^0}$$

$$= \mathbf{290.28\ in^2}$$

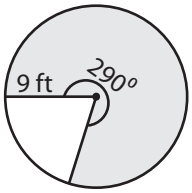
Find the area of each shaded region. Round the answer to two decimal places. (use π=3.14)

1)



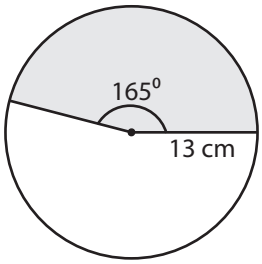
Area = _____

2)



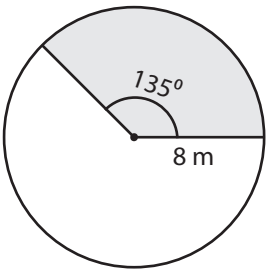
Area = _____

3)



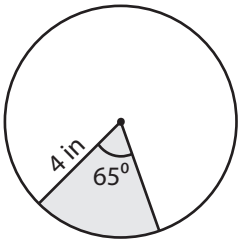
Area = _____

4)



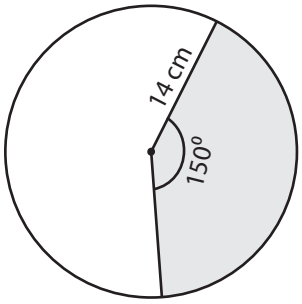
Area = _____

5)



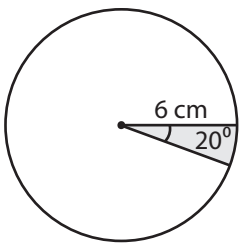
Area = _____

6)



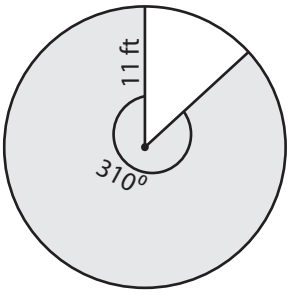
Area = _____

7)



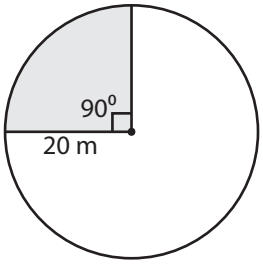
Area = _____

8)



Area = _____

9)



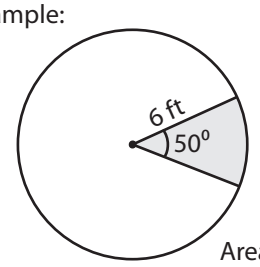
Area = _____

Name : _____ **Answer Key** Score : _____

Sheet 1

Area of a Sector

Example:



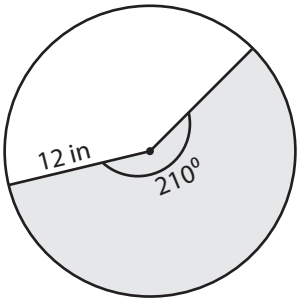
$$\text{Area of a sector} = \frac{\text{central angle}}{360^0} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^0}$$

$$= \frac{50^0 \times 3.14 \times 6 \times 6}{360^0}$$

$$= \mathbf{15.7\ ft^2}$$

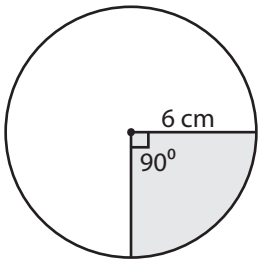
Find the area of each shaded region. Round the answer to two decimal places. (use π=3.14)

1)



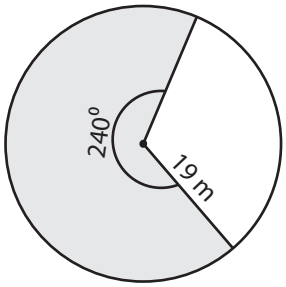
Area = **263.76 in²**

2)



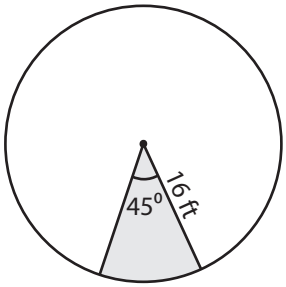
Area = **28.26 cm²**

3)



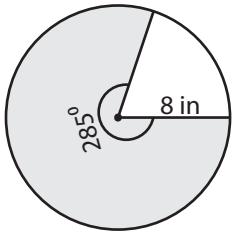
Area = **755.69 m²**

4)



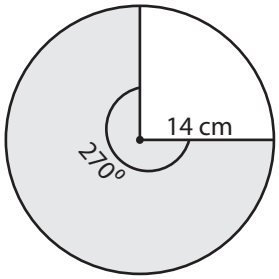
Area = **100.48 ft²**

5)



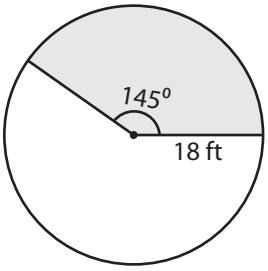
Area = **159.09 in²**

6)



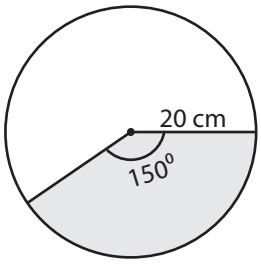
Area = **461.58 cm²**

7)



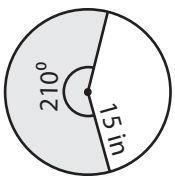
Area = **409.77 ft²**

8)



Area = **523.33 cm²**

9)



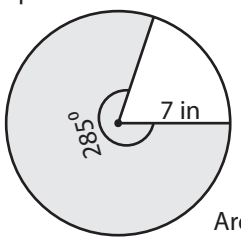
Area = **412.13 in²**

Name : _____ **Answer Key** Score : _____

Sheet 2

Area of a Sector

Example:



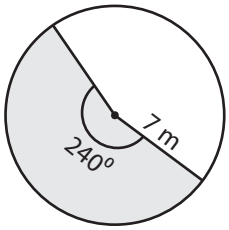
$$\text{Area of a sector} = \frac{\text{central angle}}{360^0} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^0}$$

$$= \frac{285^0 \times 3.14 \times 7 \times 7}{360^0}$$

$$= \mathbf{121.81\ in^2}$$

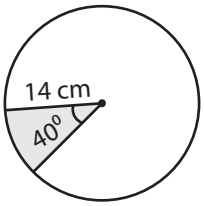
Find the area of each shaded region. Round the answer to two decimal places. (use π=3.14)

1)



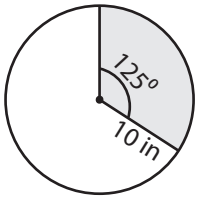
Area = **102.57 m²**

2)



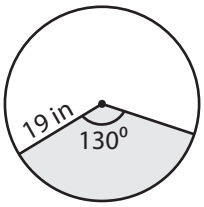
Area = **68.38 cm²**

3)



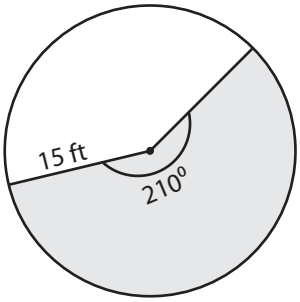
Area = **109.03 in²**

4)



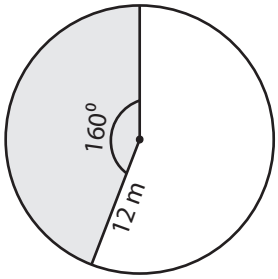
Area = **409.33 in²**

5)



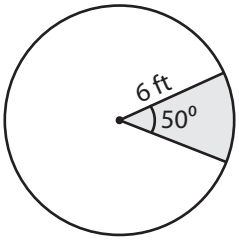
Area = **412.13 ft²**

6)



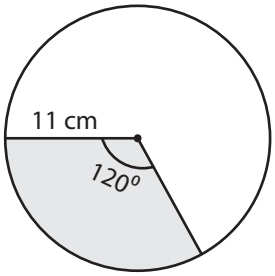
Area = **200.96 m²**

7)



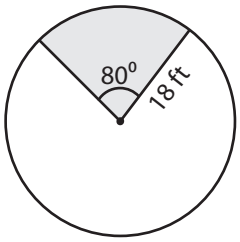
Area = **15.7 ft²**

8)



Area = **126.65 cm²**

9)



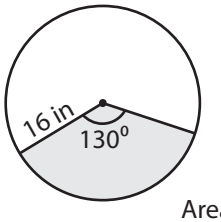
Area = **226.08 ft²**

Name : _____ **Answer Key** Score : _____

Sheet 3

Area of a Sector

Example:



Area=?

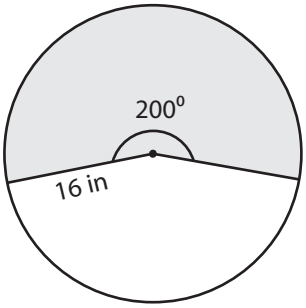
$$\text{Area of a sector} = \frac{\text{central angle}}{360^0} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^0}$$

$$= \frac{130^0 \times 3.14 \times 16 \times 16}{360^0}$$

$$= \mathbf{290.28\ in^2}$$

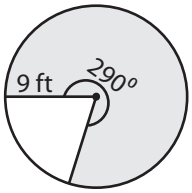
Find the area of each shaded region. Round the answer to two decimal places. (use π=3.14)

1)



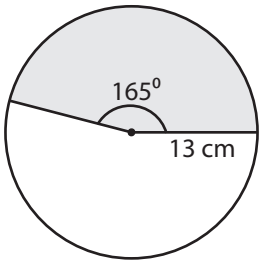
Area = **446.58 in²**

2)



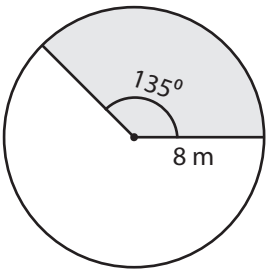
Area = **204.89 ft²**

3)



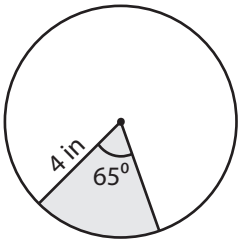
Area = **243.22 cm²**

4)



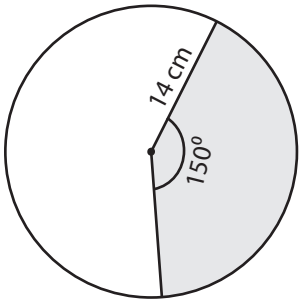
Area = **75.36 m²**

5)



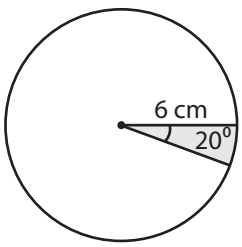
Area = **9.07 in²**

6)



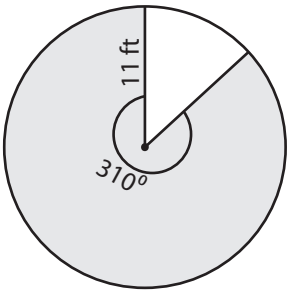
Area = **256.43 cm²**

7)



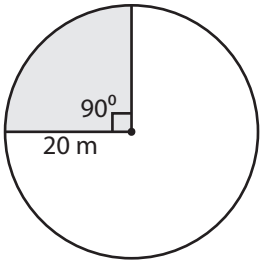
Area = **6.28 cm²**

8)



Area = **327.17 ft²**

9)



Area = **314 m²**