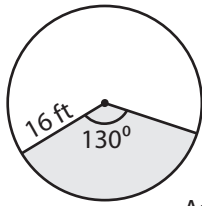


## Area of a Sector

Sheet 3

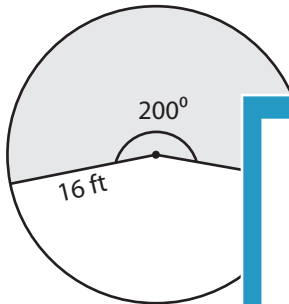
Example:



$$\begin{aligned} \text{Area of a sector} &= \frac{\text{central angle}}{360^\circ} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^\circ} \\ &= \frac{130^\circ \times 3.14 \times 16 \times 16}{360^\circ} \\ &= \mathbf{290.28 \text{ ft}^2} \end{aligned}$$

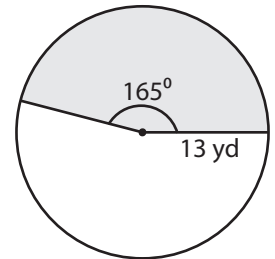
Find the area of each shaded region. Round the answer to two decimal places. ( use  $\pi=3.14$  )

1)



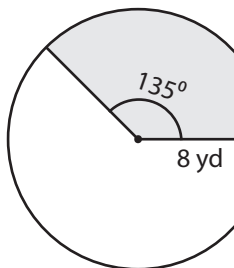
Area = \_\_\_\_\_

2)



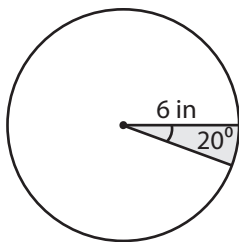
Area = \_\_\_\_\_

4)

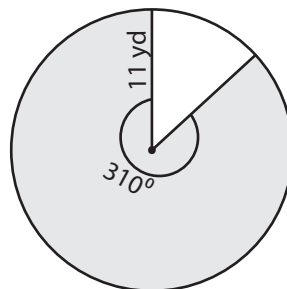


Area = \_\_\_\_\_

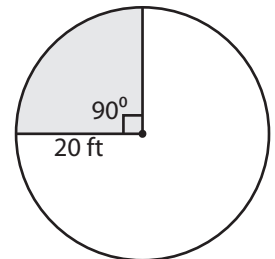
7)



Area = \_\_\_\_\_



Area = \_\_\_\_\_



Area = \_\_\_\_\_

# PREVIEW

Access the largest collection of  
worksheets for just **\$19.95** per year!

Members, please  
log in to  
download this  
worksheet.

Log in

Not a member?  
Please sign up to  
gain complete  
access.

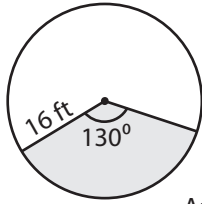
Sign up

www.mathworksheets4kids.com

## Area of a Sector

Sheet 3

Example:

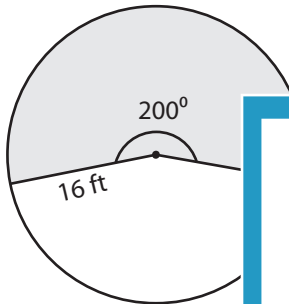


Area=?

$$\begin{aligned} \text{Area of a sector} &= \frac{\text{central angle}}{360^\circ} \times \pi \times \text{radius}^2 = \frac{\theta \times \pi \times r^2}{360^\circ} \\ &= \frac{130^\circ \times 3.14 \times 16 \times 16}{360^\circ} \\ &= \mathbf{290.28 \text{ ft}^2} \end{aligned}$$

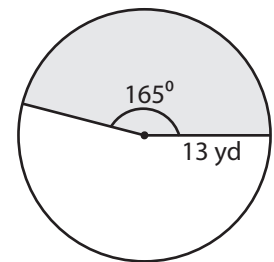
Find the area of each shaded region. Round the answer to two decimal places. ( use  $\pi=3.14$  )

1)



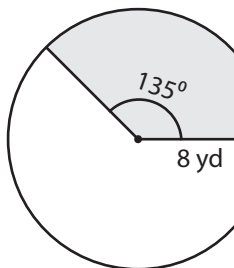
Area = 446.58

2)



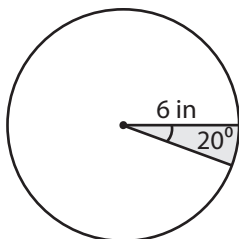
Area = 243.22 yd<sup>2</sup>

4)

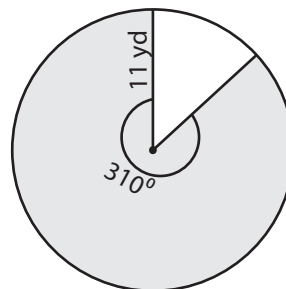


Area = 75.36 yd<sup>2</sup>

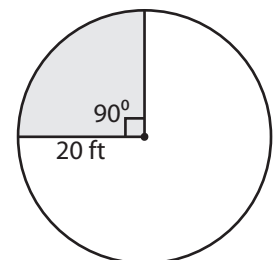
7)



Area = 6.28 in<sup>2</sup>



Area = 327.17 yd<sup>2</sup>



Area = 314 ft<sup>2</sup>

# PREVIEW

Access the largest collection of  
worksheets for just **\$19.95** per year!

Members, please  
log in to  
download this  
worksheet.

**Log in**

Not a member?  
Please sign up to  
gain complete  
access.

**Sign up**

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)