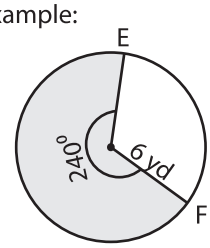
Name : _____ Score : _____

Sheet 2

Arc Length and Area of a Sector

Example:



s=? Area=?

Arc length of a sector (s) = $\frac{\theta \times \pi \times r}{180^0}$

$= \frac{240^0 \times 3.14 \times 6}{180^0}$

$= 25.12$ yd

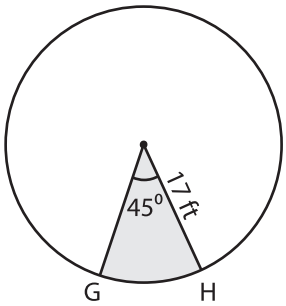
Area = $\frac{s \times r}{2}$

$= \frac{25.12 \times 6}{2}$

$= 75.36$ yd^2

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

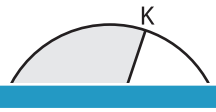
1)



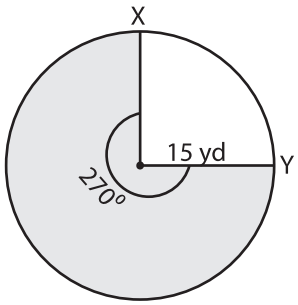
Length of the arc GH = _____

Area of a sector = _____

2)



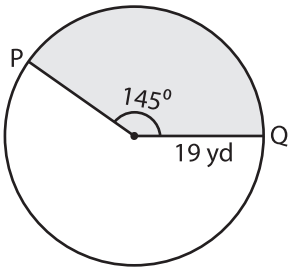
3)



h of the arc XY = _____

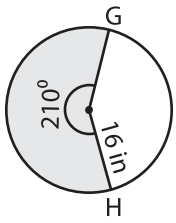
rea of a sector = _____

4)



Length of the arc PQ = _____

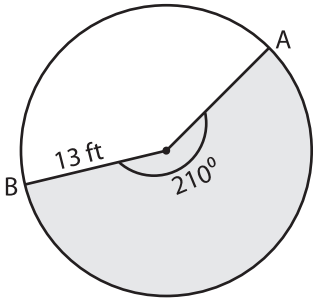
Area of a sector = _____



h of the arc GH = _____

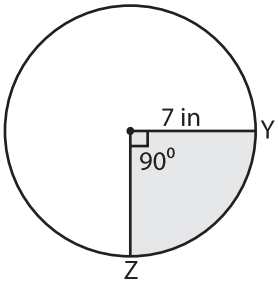
rea of a sector = _____

7)



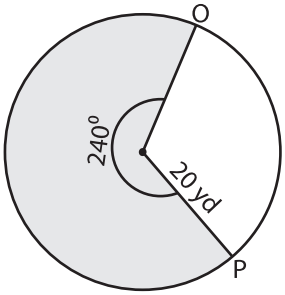
Length of the arc AB = _____

Area of a sector = _____



Length of the arc YZ = _____

Area of a sector = _____



Length of the arc OP = _____

Area of a sector = _____