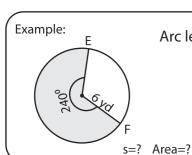
(Arc Length and Area of a Sector)

Sheet 2



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

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

= 25.12 yd

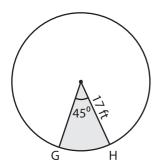
Area =
$$\frac{s \times r}{2}$$

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

 $= 75.36 \text{ yd}^2$

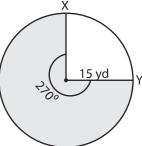
Find the length of the arc and area of the shaded region. Round the answer to two decimal places. (use $\pi = 3.14$)

1)





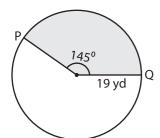
3)



Length of the arc GH =

Area of a sector = ___

4)



Length of the arc PQ =

Area of a sector =

2)

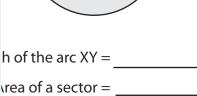


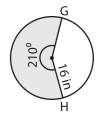
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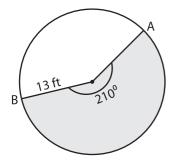
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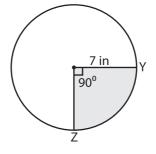
h of the arc GH = rea of a sector =

7)



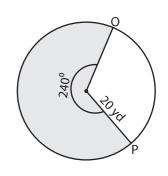
Length of the arc AB = _____

Area of a sector =



Length of the arc YZ = _____

Area of a sector =



Length of the arc OP =

Area of a sector =