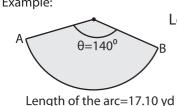
Finding Area of a Sector





Area=?

Length of the arc =
$$\frac{\theta \times \pi \times r}{180^{\circ}}$$

$$17.10 = \frac{140^{0} \times 3.14 \times r}{180^{0}}$$

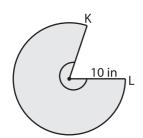
Area of a sector =
$$\frac{\theta \times \pi \times r^2}{360^0}$$

= $\frac{140 \times 3.14 \times 7 \times 7}{360^0}$

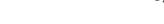
 $= 59.83 \text{ yd}^2$

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

1)



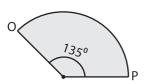
2)





Length of the arc KL = 49.72 in

4)



Length of the arc OP = 44.75 ft

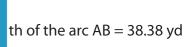
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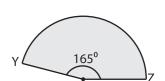
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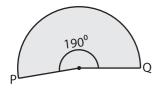


Area = _____

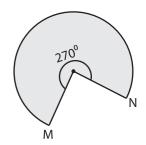


th of the arc YZ = 48.93 in

7)







Length of the arc PQ = 46.40 yd

Length of the arc AB = 17.79 in

Length of the arc MN = 37.68 ft

Area = _____

Area = _____

Area = _____