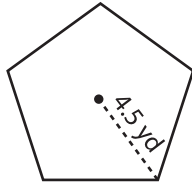


Area of a Polygon

Example:

Find the area of the polygon.

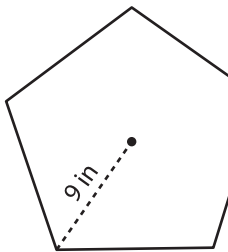


$$\begin{aligned} \text{Area} &= \frac{r^2 \times n \times \sin\left(\frac{360}{n}\right)}{2} \\ &= \frac{20.25 \times 5 \times \sin\left(\frac{360}{5}\right)}{2} = 48.15 \text{ yd}^2 \end{aligned}$$

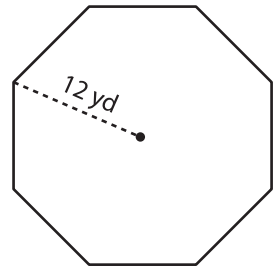
r = circumradius
 n = number of sides

Find the area of each polygon using the given circumradius. Round your answer to two decimal places.

1)

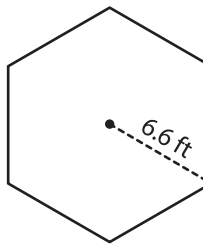


Area = _____

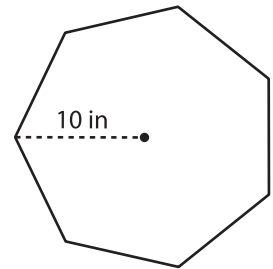


Area = _____

4)

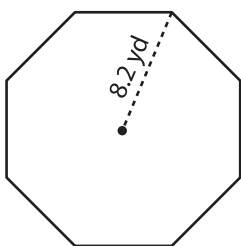


Area = _____



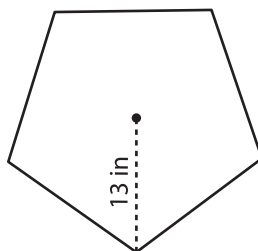
Area = _____

7)



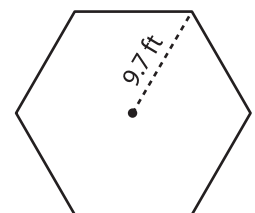
Area = _____

8)



Area = _____

9)



Area = _____

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