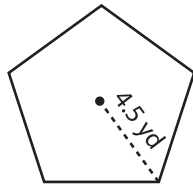


## Area of a Polygon

Example:

Find the area of the polygon.



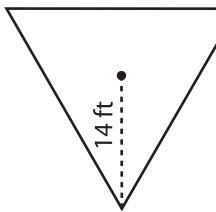
$$\text{Area} = \frac{r^2 \times n \times \sin\left(\frac{360}{n}\right)}{2}$$

$$= \frac{20.25 \times 5 \times \sin\left(\frac{360}{5}\right)}{2} = 48.15 \text{ yd}^2$$

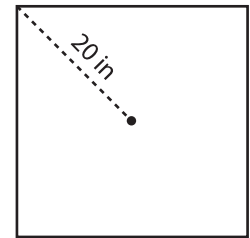
r = circumradius  
n = number of sides

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

1)

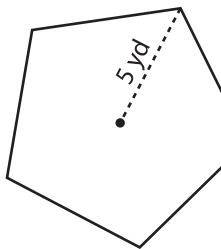


Area = \_\_\_\_\_

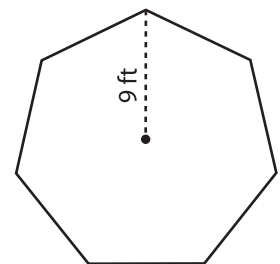


Area = \_\_\_\_\_

4)

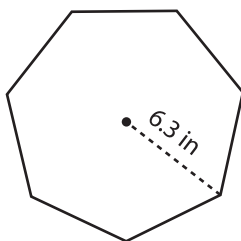


Area = \_\_\_\_\_



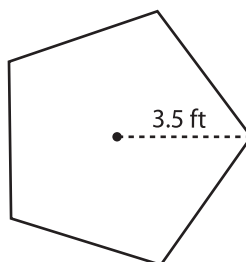
Area = \_\_\_\_\_

7)



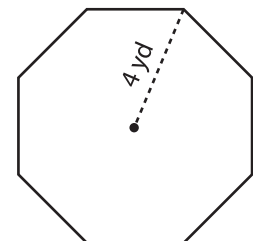
Area = \_\_\_\_\_

8)



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

9)



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

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