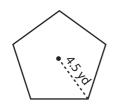
## Area of a Polygon

Example:

Find the area of the polygon.



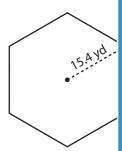
Area = 
$$\frac{r^2 \times n \times \sin\left(\frac{360}{n}\right)}{2}$$

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

r = circumradius n = number of sides

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

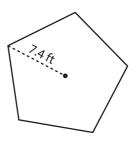
1)



Area =

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Area =

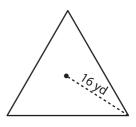
4)



Area =

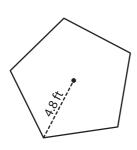
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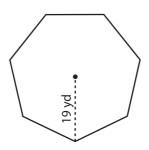
Area =

7)



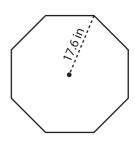
Area =

8)



Area =

9)



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