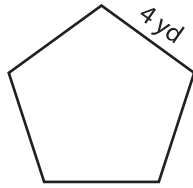


Area of a Polygon

Example:

Find the area of the polygon.

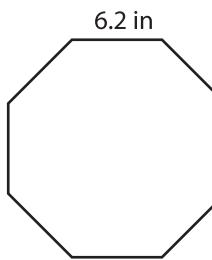


$$\begin{aligned} \text{Area} &= \frac{s^2 \times n}{4 \left[\tan \left(\frac{180}{n} \right) \right]} \\ &= \frac{16 \times 5}{4 \left[\tan \left(\frac{180}{5} \right) \right]} = 27.53 \text{ yd}^2 \end{aligned}$$

s = side length
n = number of sides

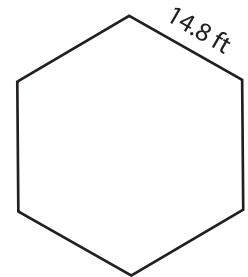
Find the area of each polygon using the given side length. Round your answer to two decimal places.

1)



Area = _____

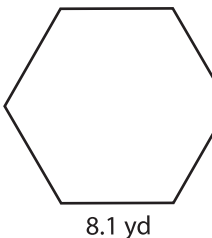
2)



Area = _____

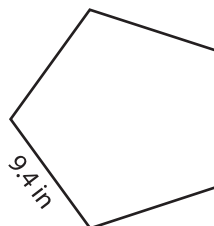
3)

4)



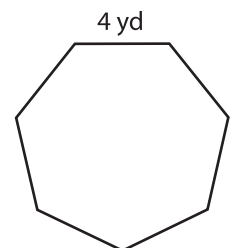
Area = _____

8)



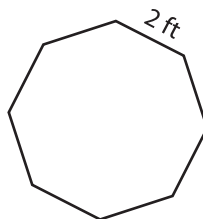
Area = _____

9)



Area = _____

7)



Area = _____

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