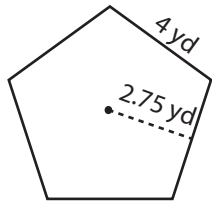


Area of a Polygon

Example:

Find the area of the polygon.



$$\text{Perimeter} = \text{number of sides} \times \text{side length}$$

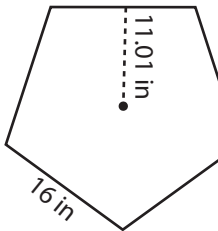
$$= 5 \times 4 = 20 \text{ yd}$$

$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

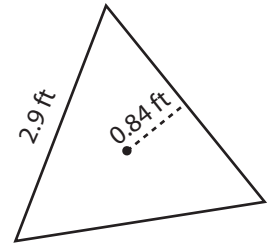
$$= \frac{1}{2} \times 2.75 \times 20 = \mathbf{27.5 \text{ yd}^2}$$

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

1)

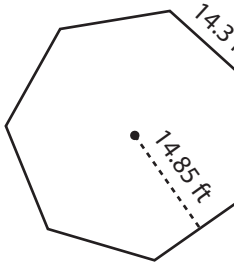


Area = _____

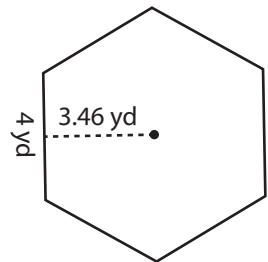


Area = _____

4)

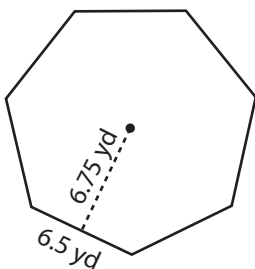


Area = _____



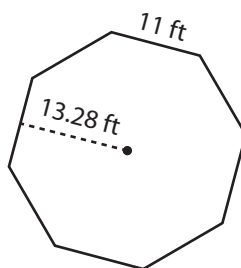
Area = _____

7)



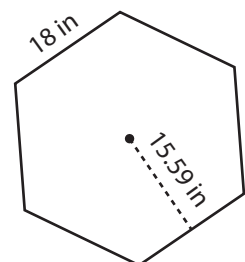
Area = _____

8)



Area = _____

9)



Area = _____

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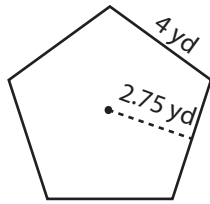
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Area of a Polygon

Example:

Find the area of the polygon.



$$\text{Perimeter} = \text{number of sides} \times \text{side length}$$

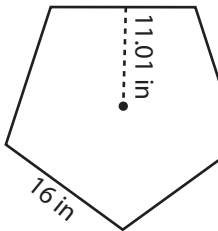
$$= 5 \times 4 = 20 \text{ yd}$$

$$\text{Area} = \frac{1}{2} \times \text{apothem} \times \text{perimeter}$$

$$= \frac{1}{2} \times 2.75 \times 20 = \mathbf{27.5 \text{ yd}^2}$$

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

1)



Area = 440.4 in²

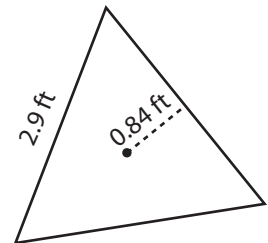
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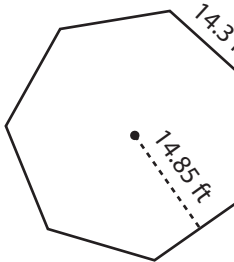
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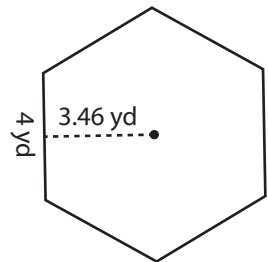


Area = 3.65 ft²

4)

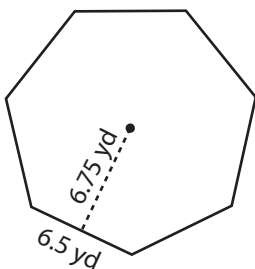


Area = 743.24 ft²



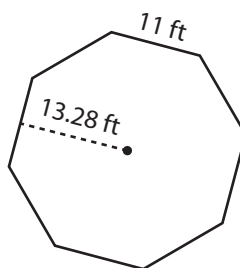
Area = 41.52 yd²

7)



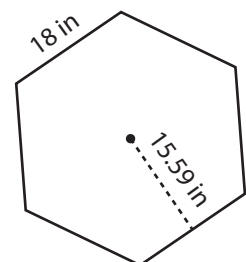
Area = 153.56 yd²

8)



Area = 584.32 ft²

9)



Area = 841.86 in²