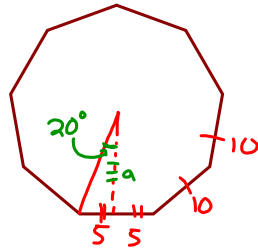


Find the area of the regular polygons to the nearest tenth of a unit².

Perimeter: 90 yd

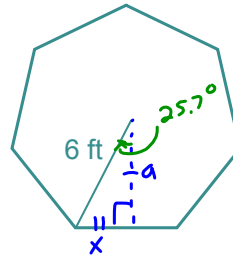


$$360 \div 9 = 40 \div 2 = 20$$

$$a = \frac{5}{\tan 20} = 13.7$$

$$A = \frac{1}{2} a p$$

$$A = \frac{1}{2} (13.7)(90) = 616.5 \text{ yd}^2$$



$$360 \div 7 = 51.4 \div 2 = 25.7$$

$$6 \cos 25.7 = a$$

$$a = 5.4$$

$$5.4^2 + x^2 = 6^2$$

$$x = 2.6 \rightarrow x \cdot 2 = 5.2$$

$$A = n \cdot \frac{1}{2} a s$$

$$= 7 \left(\frac{1}{2} \right) (5.4)(5.2) = 98.3 \text{ ft}^2$$

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Find the area of the segment of the circle whose area is $49\pi \text{ m}^2$. Round to the nearest tenth.

sector
 $\frac{111}{360} \cdot 49\pi = 47.5 \text{ m}^2$

triangle
 $\frac{1}{2} (7)(7) \sin(111) = 22.9 \text{ m}^2$

$47.5 - 22.9 = 24.6 \text{ m}^2$

Mar 19-3:28 PM