FINDING THE AREA OF REGULAR POLYGONS

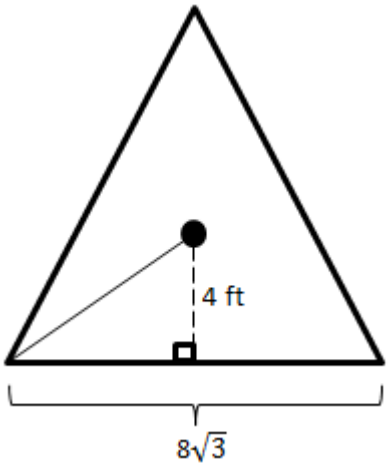
Reminder: The area of a triangle is: ☐

Constants for a 30-60-90 triangle: ☐

Constants for 45-45-90 triangle: ☐

Find the area of the indicated regular polygon.

1.

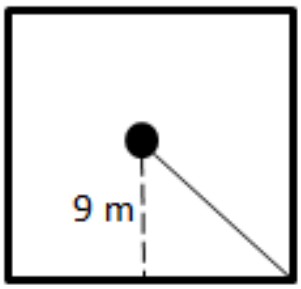


Area of smaller triangle:_____

# of small triangles:_____

Area of polygon:_____

2.



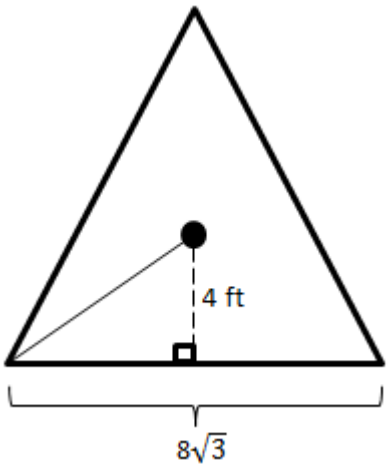
Area of smaller triangle:_____

# of small triangles: _____

Area of polygon:_____

Area	rectangle	$A = lw$ or $A = bh$
	triangle	$A = \frac{1}{2}bh$ or $A = \frac{bh}{2}$
	trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$ or $A = \frac{(b_1 + b_2)h}{2}$
	regular polygon	$A = \frac{1}{2}aP$
	circle	$A = \pi r^2$

3.

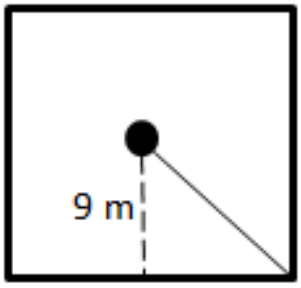


Apothem:_____

Perimeter of triangle: _____

Area of polygon: _____

4.

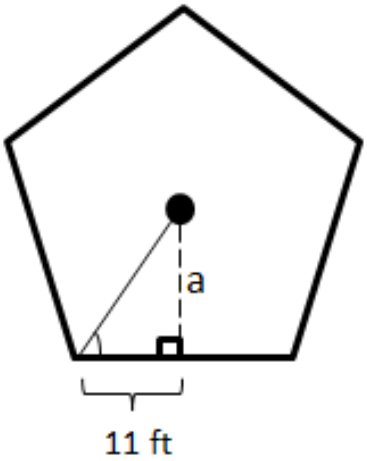


Apothem:_____

Perimeter of Square: _____

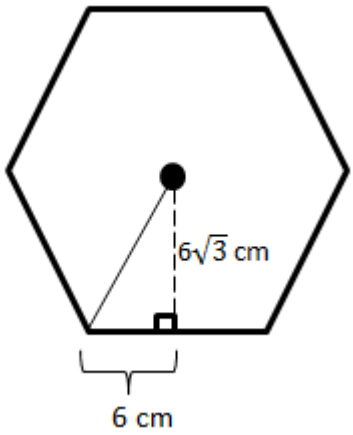
Area of polygon: _____

5.



Area of polygon: _____

6.



Area of polygon: _____