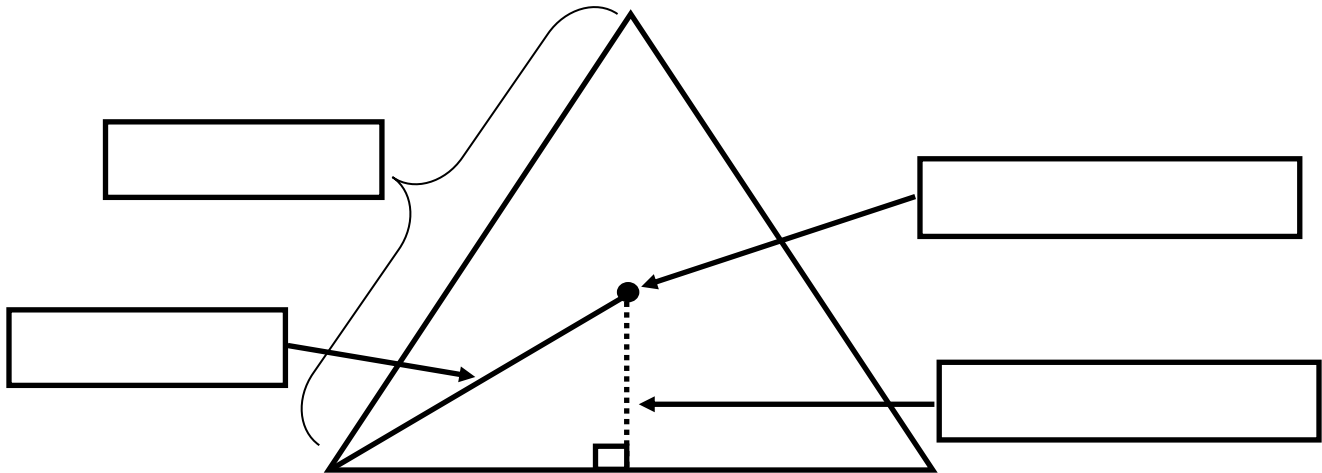
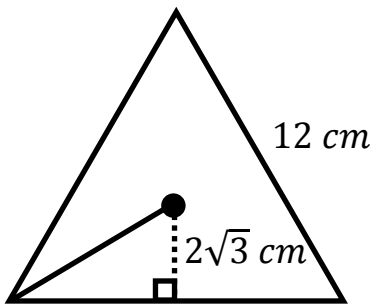


NOTES 11.3 – AREAS OF REGULAR POLYGONS



$$A_{\text{REGULAR POLYGON}} = \frac{1}{2} (\text{Perimeter})(\text{apothem})$$

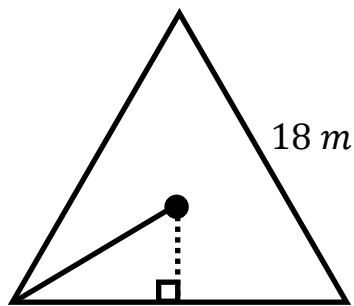
EXAMPLE 1: Find the indicated measures for the regular triangle.



P = _____

A = _____

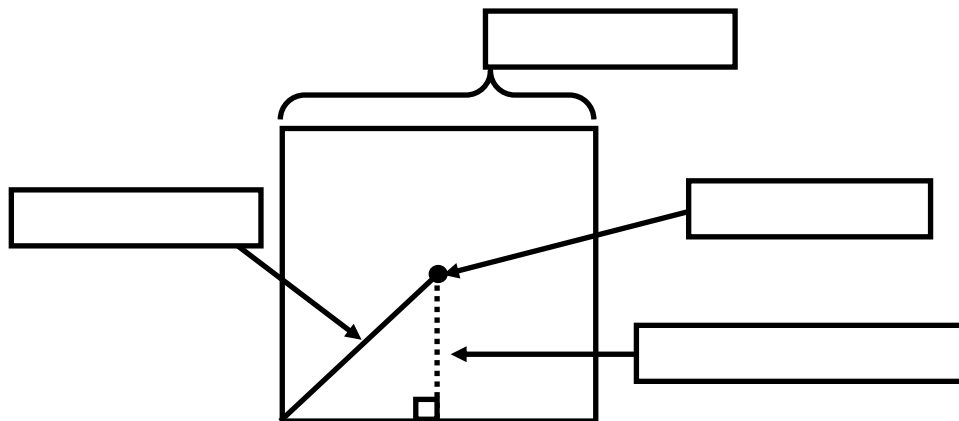
EXAMPLE 2: Find the indicated measures for the equilateral triangle.



P = _____

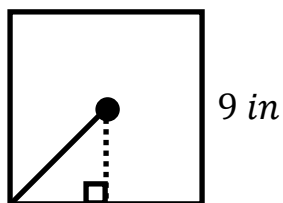
a = _____

A = _____



$$A_{\text{REGULAR POLYGON}} = \frac{1}{2} (\text{Perimeter})(\text{apothem})$$

EXAMPLE 3: Find the indicated measures for the regular polygon below.

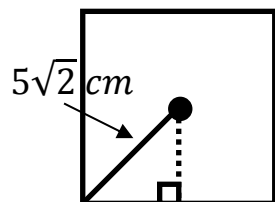


$P =$ _____

$r =$ _____

$A =$ _____

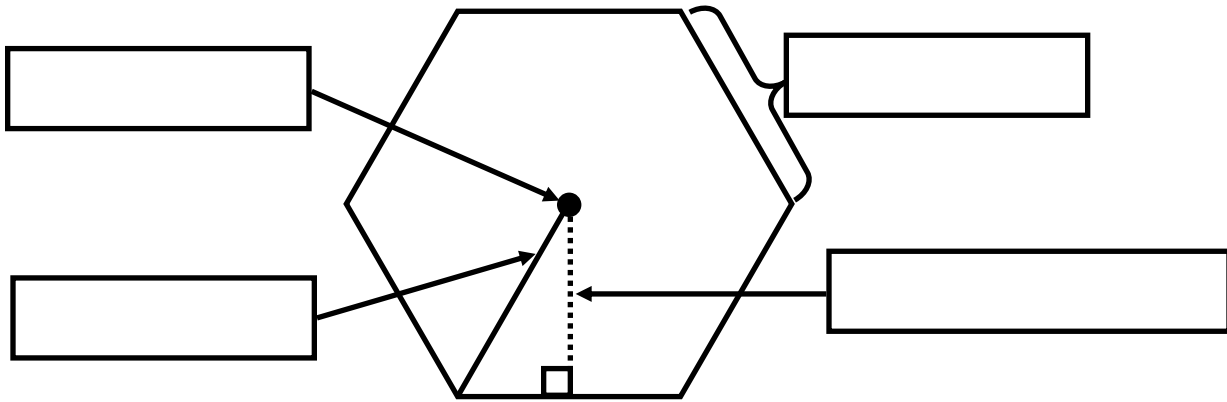
EXAMPLE 4: Find the indicated measures for the square below.



$a =$ _____

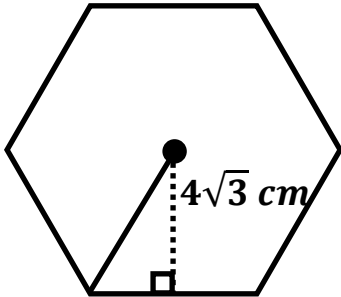
$P =$ _____

$A =$ _____



$$A_{\text{REGULAR POLYGON}} = \frac{1}{2} (\text{Perimeter})(\text{apothem})$$

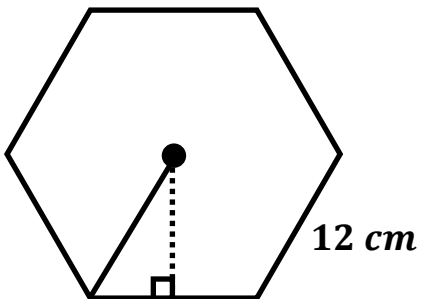
EXAMPLE 5: Find the indicated measures for the regular polygon below.



P = _____

A = _____

EXAMPLE 6: Find the indicated measures for the regular polygon below.



P = _____

a = _____

A = _____