

To find sum of interior angles:

$$S = 180(n-2)$$

ex) hexagon  $\rightarrow$  6 sides

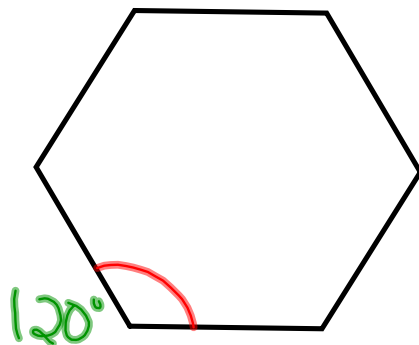
$$= 180(6-2)$$

$$= 180(4)$$

$$= 720^\circ$$

To find the measure of the interior angle

$$M = \frac{180(n-2)}{n}$$



$$M = \frac{180(6-2)}{6}$$
$$= \frac{180}{6} = 120^\circ$$

## Section 5.1 Extra Practice

 $n = 6$  (hexagon)

$$\begin{aligned} 1. \quad M &= \frac{180(6-2)}{6} \\ &= \frac{180(4)}{6} \\ &= \frac{720}{6} = 120^\circ \end{aligned}$$

measure  $\nearrow$

2. pentagon = 5 sides

$$\begin{aligned} M &= \frac{180(5-2)}{5} \\ &= \frac{180(3)}{5} = \frac{540}{5} = 108^\circ \end{aligned}$$