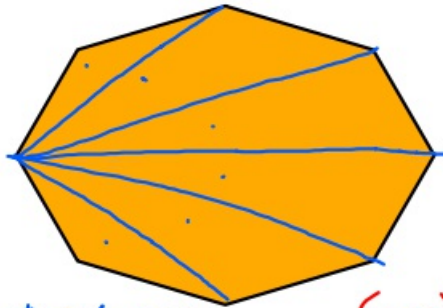


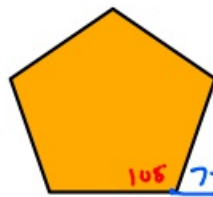
1-6-20 2nd Geo

① How many degrees inside an octagon?



$$6 \Delta = 6 \cdot 180^\circ \\ = 1080^\circ$$

$$(n-2) \cdot 180^\circ$$



exterior angle

$$\frac{360}{5}$$

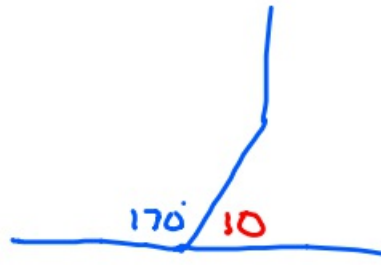
$$\text{ext } \angle = \frac{360}{n}$$

② what is the exterior angle of a regular decagon?
what is the interior angle?

$$\text{ext } \angle = \frac{360}{n} \\ = \frac{360}{10} \\ = 36^\circ$$



- ③ How many sides does a regular polygon have if the interior angle is 170° ?



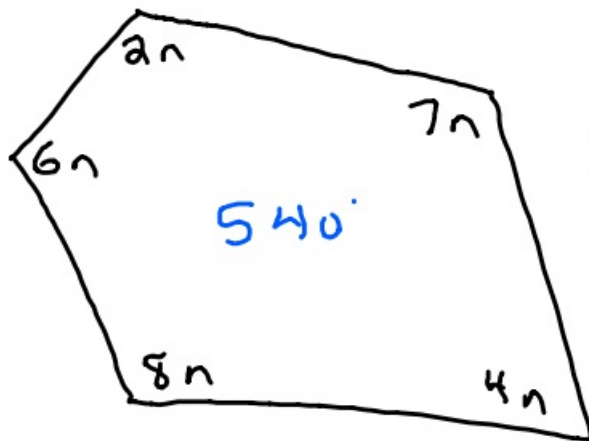
$$\text{ext } \angle = \frac{360}{n}$$

$$n = \frac{360}{\text{ext } \angle}$$

$$n = \frac{360}{10}$$

$$n = 36$$

④



Find n .

$$(n-2) \cdot 180^\circ$$

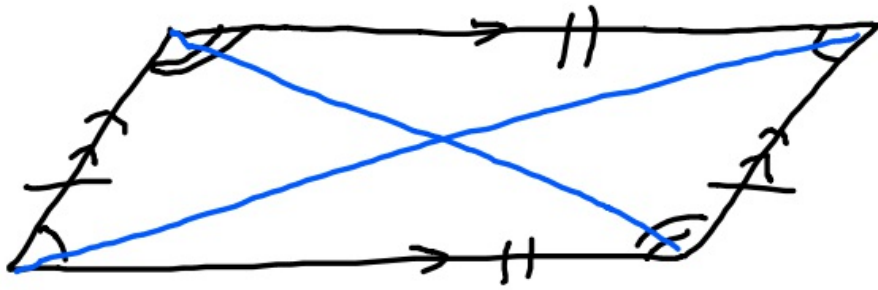
$$(5-2) \cdot 180^\circ$$

$$8n + 4n + 7n + 2n + 6n = 540^\circ$$

$$27n = 540$$

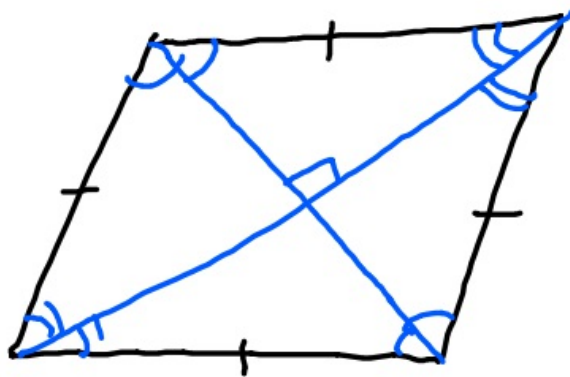
$$n = 20^\circ$$

Parallelogram



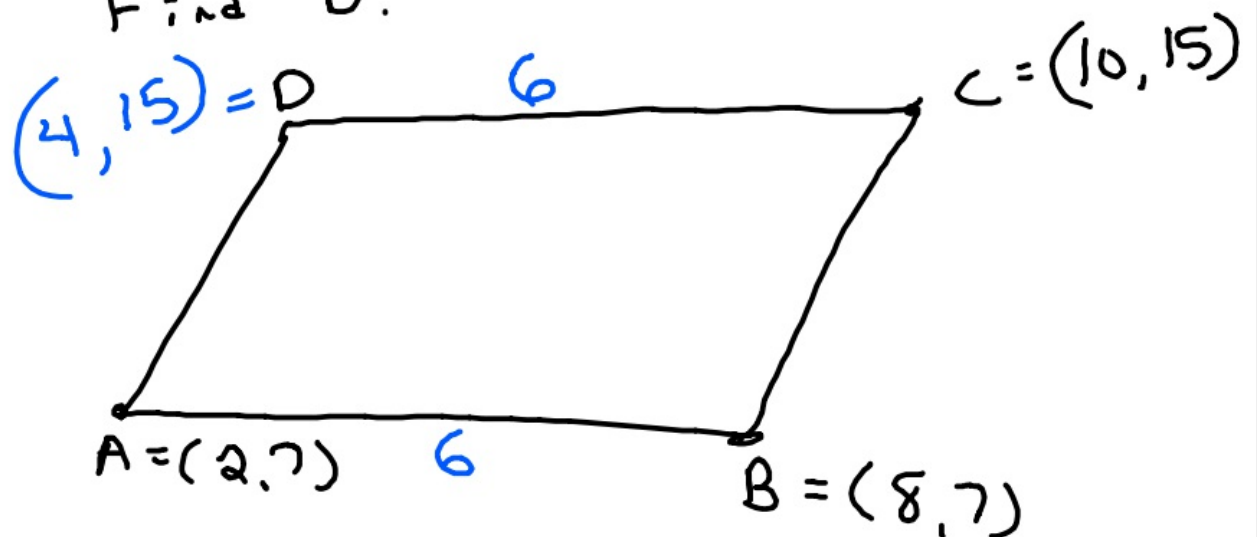
- ① opposite \angle 's are =
- ② opposite sides are =
- ③ consecutive \angle 's are supplementary.
- ④ Diagonals bisect each other

Rhombus



- ① Diagonals are \perp to each other
- ② Diagonals bisect the angles.

⑤ Parallelogram ABCD
Find D.



⑥ Parallelogram ABCD

