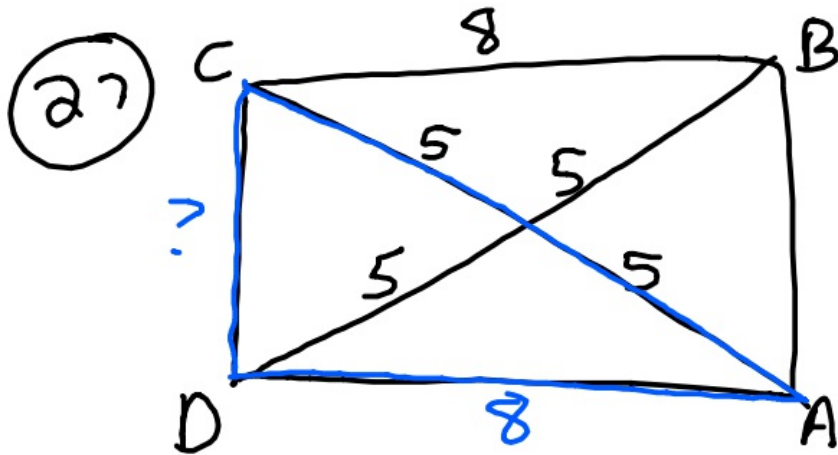


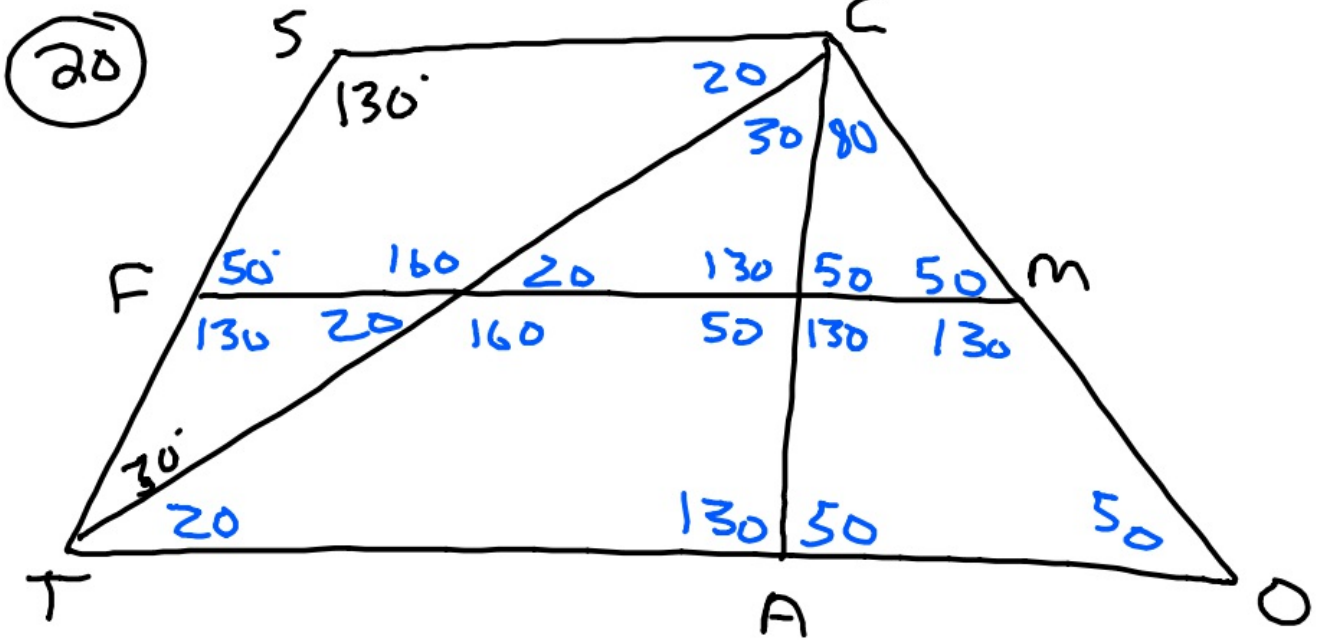
12-9-19 6th Geo

Ch. 6 PT 2

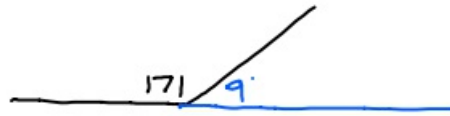


$$leg^2 + 8^2 = 10^2$$

$$leg = 6$$



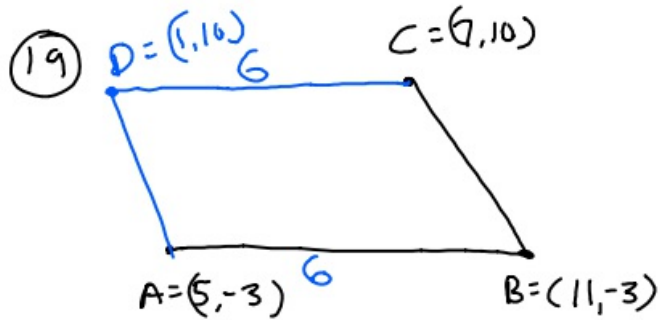
13



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

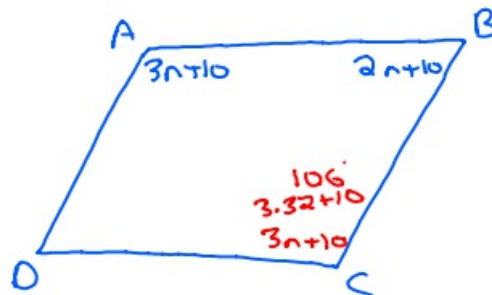
$$n = \frac{360}{9}$$

$$n = 40$$



New

- ① In Rhombus ABCD, $\angle A = 3n + 10$
and $\angle B = 2n + 10$. Find $\angle C$.



$$3n + 10 + 2n + 10 = 180$$

$$5n + 20 = 180$$

$$5n = 160$$

$$n = 32$$

② If the interior angle of a regular polygon is 172.5° , how many sides is the polygon?



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

$$n = \frac{360}{7.5}$$

$$n = 48$$

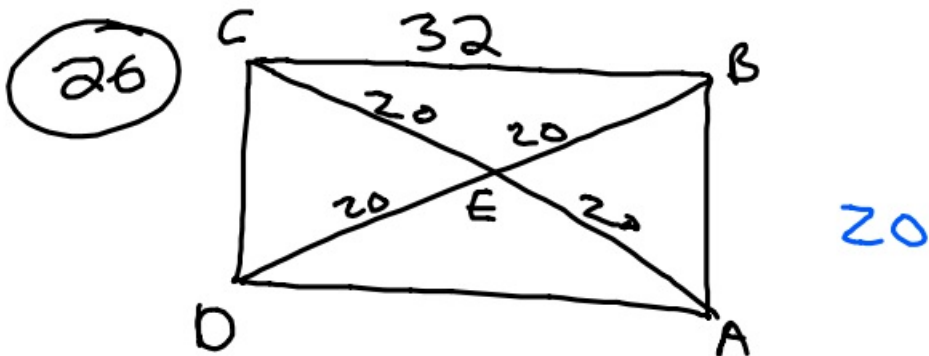
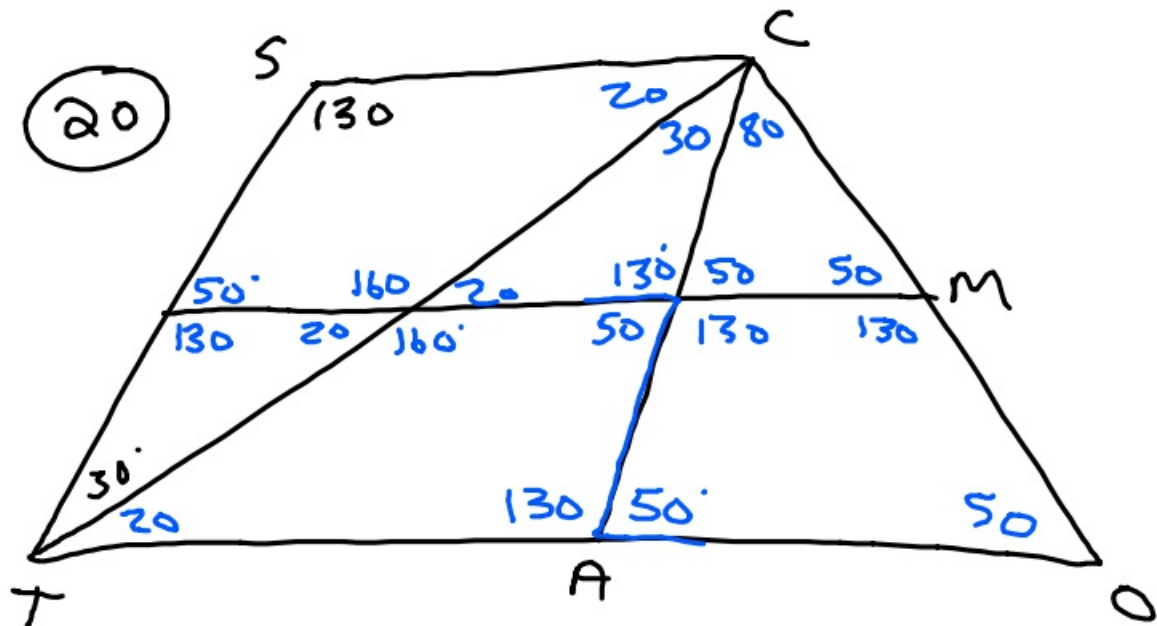
③ I am building a regular 72-gon garden. How many degrees is each interior angle?

A diagram showing a vertex of a polygon. A horizontal line segment is drawn to the left, and another line segment is drawn upwards and to the right. The interior angle between these two segments is labeled 175° . The exterior angle, formed by extending the horizontal segment to the right, is labeled 5° .

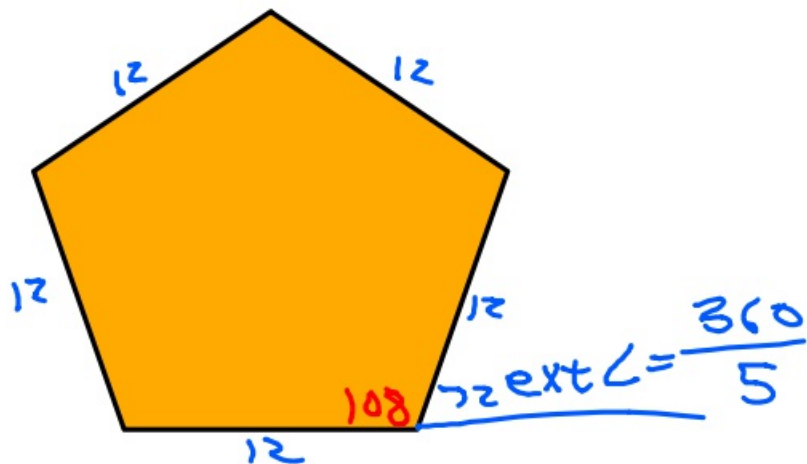
$$5^\circ \text{ ext } \angle = \frac{360}{72} = 5^\circ$$

12-9-19 7th Geo

Ch. 6 P T 2



(14)

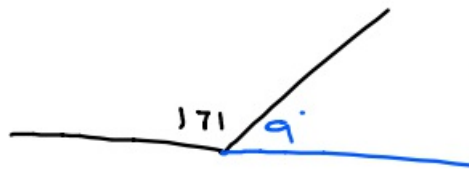


(10) hexagon $\text{ext } \angle = \frac{360}{n}$
 $= \frac{360}{6} = 60^\circ$

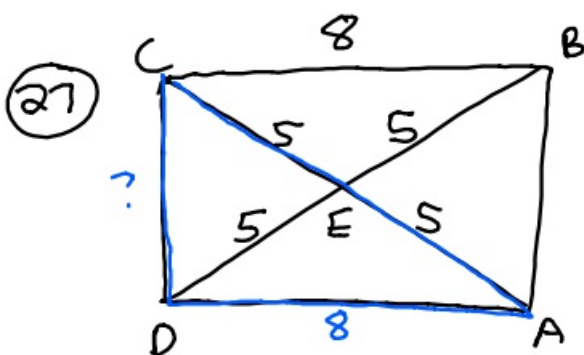
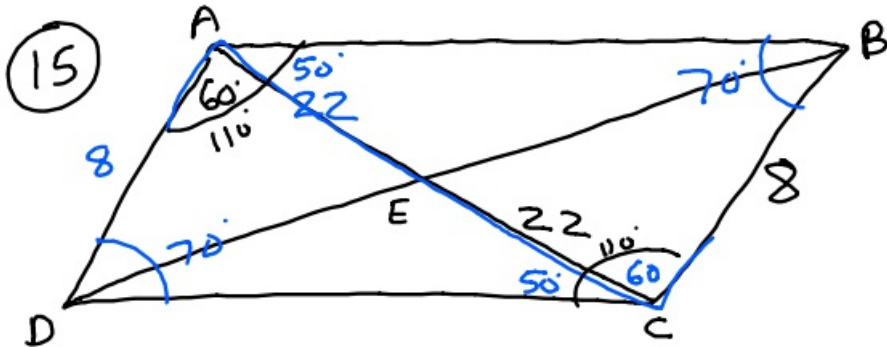
(11) decagon $\text{ext } \angle = \frac{360}{n}$
 $= \frac{360}{10}$
 $= 36^\circ$



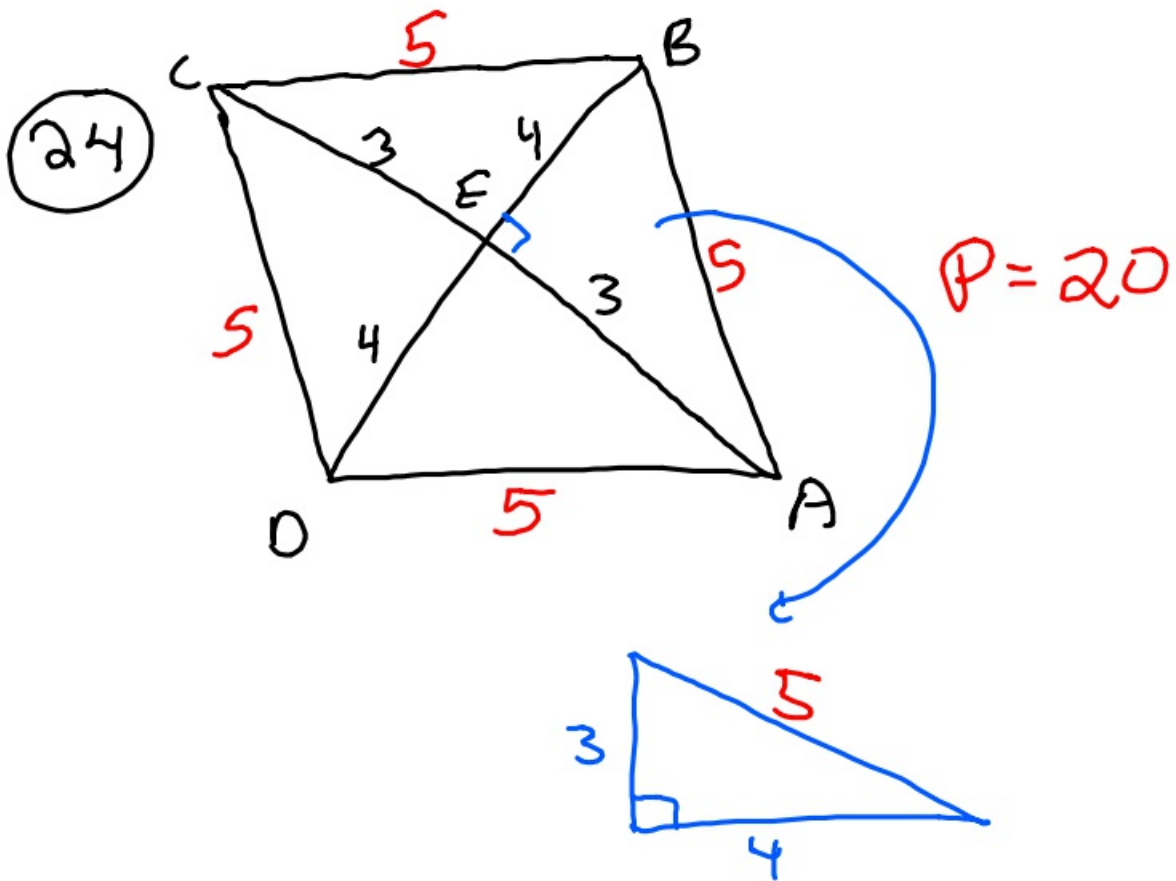
(12)



$\text{ext } \angle = \frac{360}{n}$
 $n = \frac{360}{\text{ext } \angle}$
 $n = \frac{360}{9}$
 $n = 40$

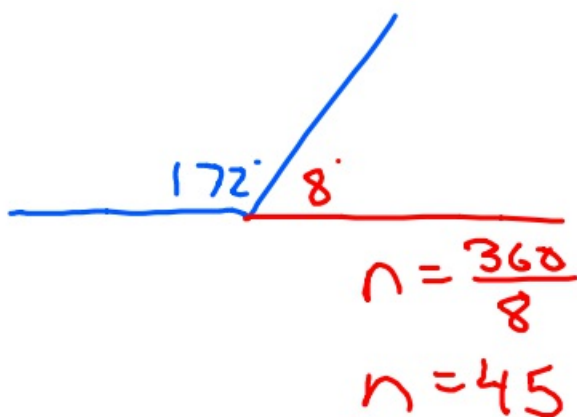


$6^2 + 8^2 = 10^2$
 $6 = 6$



New

- ① If the interior angle of a regular polygon is 172° , how many sides is the polygon?



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