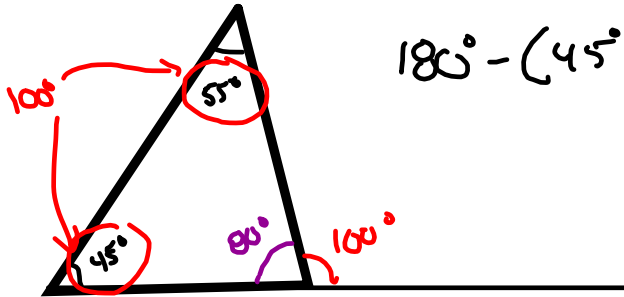


art and shapes



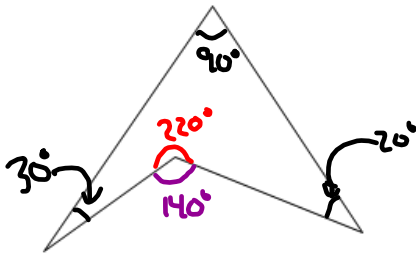
LESSON # 38 ~ More on Polygons

The exterior angle of a triangle is equal to the sum of two non-adjacent angles.



$$180^\circ - (45^\circ + 55^\circ) = 80^\circ$$

In a concave quadrilateral: the exterior angle formed by the reflex angle is equal to the sum of the 3 other interior angles.



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

$$180(4-2) = 180(2) = 360^\circ$$

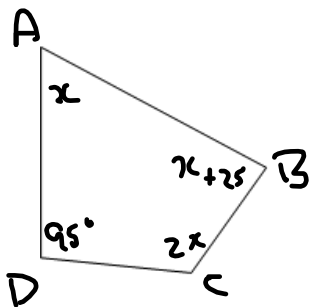
$$360 - (30 + 90 + 20)$$

$$360 - 140 = 220$$

$$360 - 220 = 140^\circ$$

Algebra in polygons

Find each interior angle.



$$x + x + 25 + 2x + 95 = 360$$

$$4x + 120 = 360$$

$$\begin{array}{r} -120 \\ -120 \\ \hline 4x = 240 \\ \hline x = 60 \end{array}$$

(+)
(x)

Angle \Rightarrow $\angle A = 60^\circ$
 $\angle B = 85^\circ$
 $\angle C = 120^\circ$
 $\angle D = 95^\circ$

} 360°

Homework

Act. Booklet:

P. 74

Attachments

Art and Shapes.asf