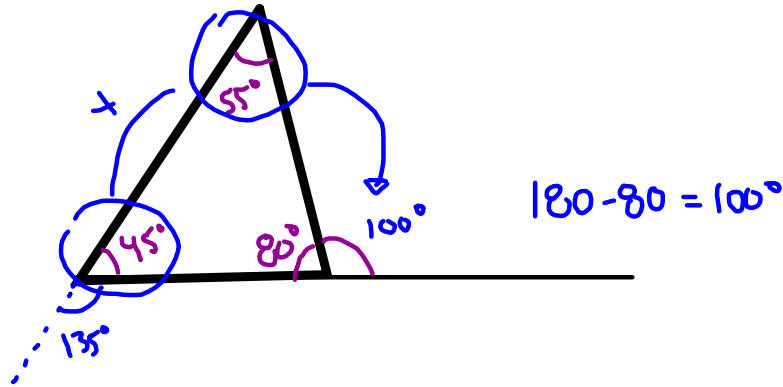


art and shapes

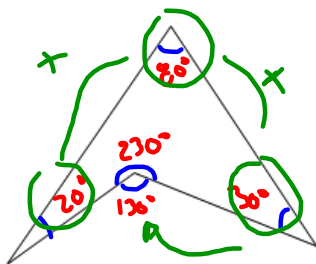


LESSON # 38 ~ More on Polygons

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



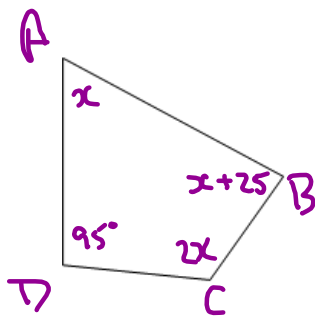
In a concave quadrilateral: the exterior angle formed by the reflex angle is equal to the sum of the 3 other interior angles.



$Quad - Sum of Int = 360^\circ$

Algebra in polygons

Find each interior angle.



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

$$4x + 120 = 360$$

$$-120 \quad -120$$

$$\frac{4x}{4} = \frac{240}{4}$$

$$x = 60$$

$$A = 60^\circ$$

$$B = x + 25 = 60 + 25 = 85^\circ$$

$$C = 2x = 2(60) = 120^\circ$$

$$D = 95^\circ$$

Homework

Act Booklet P 75 # 11 + 12

Attachments

Art and Shapes.asf