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## **Geometry Worksheet: Angle (5)**

 ${f 1.}$  Find the measures of angles BAC and BCA in the figure below.

$$(x + 10)^{2} + (x - 20)^{2} = 180^{2}$$

$$(2x - 10)^{2} = 180^{2}$$

$$(x - 20)^{2} + 4y = 180^{2}$$

$$(x - 20)^{2} + 4y = 180^{2}$$

$$\Rightarrow y = 26.25^{2}$$

$$BAC = 4y = 105^{2}$$

$$BCA = 3y = 78.75^{2}$$

Find the measure of each internal angle in the quadrilateral below.

$$A + B + C + D = 2 \times (80^{\circ})$$

$$3 \times + 2 \times + 4 \times + 3 \times = 2 \times (80^{\circ})$$

$$12 \times = 360^{\circ}$$

$$X = \frac{360}{12} = 30^{\circ}$$

$$A = 3 \times = 90^{\circ}$$

$$B = 2 \times = 60^{\circ}$$

$$C = 4 \times = 120^{\circ}$$

$$D = 3 \times = 90^{\circ}$$

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