Answer on Question #57012 – Math – Geometry

If DB bisects ADC m<1=(3x+4), and m<2=(5x-2) find x

Solution

If angles ≥ 1 and ≥ 2 are corresponding, or alternate interior, or alternate exterior, then they are equal, hence their measures are equal

$$\rightarrow 3x + 4 = 5x - 2 \rightarrow 2x = 6 \rightarrow x = 3$$
.

hence

$$3x + 4 + 5x - 2 = 180$$

$$8x + 2 = 180$$

$$8x = 178$$

$$x=\frac{178}{8},$$

that is,

$$x = 22^{\circ}15'$$
.

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