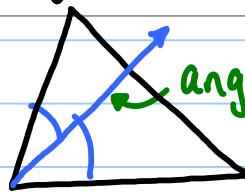


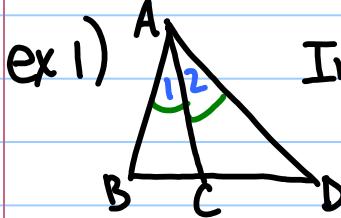
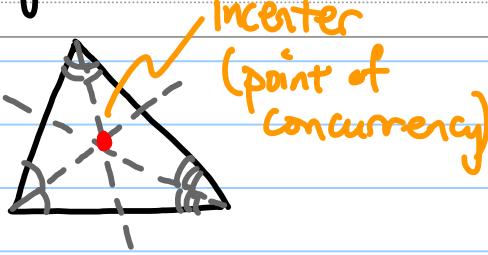
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THU

6.3 | Angle Bisectors of Triangles

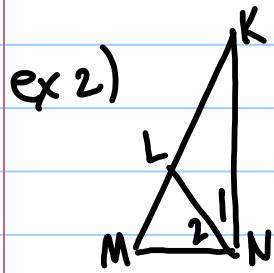


angle bisector



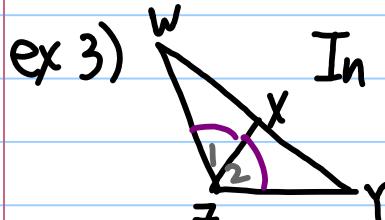
In $\triangle ABD$, \overline{AC} bisects $\angle BAD$.
If $m\angle 1 = 41^\circ$, find $m\angle 2$.

$$\rightarrow 41^\circ$$



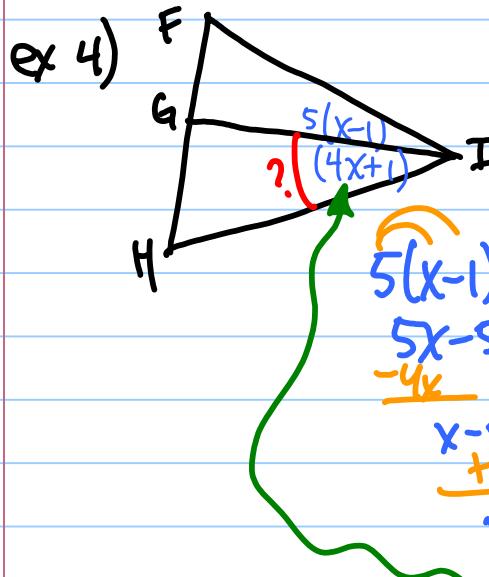
In $\triangle KMN$, \overline{NL} bisects $\angle KNM$.
If $\angle KNM$ is a right angle, find $m\angle 2$.

$$\rightarrow \frac{1}{2}(90^\circ) = 45^\circ$$



In $\triangle WYZ$, \overline{ZX} bisects $\angle WZY$.
If $m\angle 1 = 55^\circ$, find $m\angle WZY$.

$$\rightarrow 2(55) = 110^\circ$$



In $\triangle FHI$, \overline{IG} is
an angle bisector.
Find $m\angle HIG$.

$$5(x-1) = 4x+1$$

$$5x - 5 = 4x + 1$$

$$\underline{-4x} \quad \underline{-4x}$$

$$x - 5 = 1$$

$$\underline{+5} \quad \underline{+5}$$

$$x = 6$$

$$m\angle HIG = 4(6) + 1 = 25^\circ$$