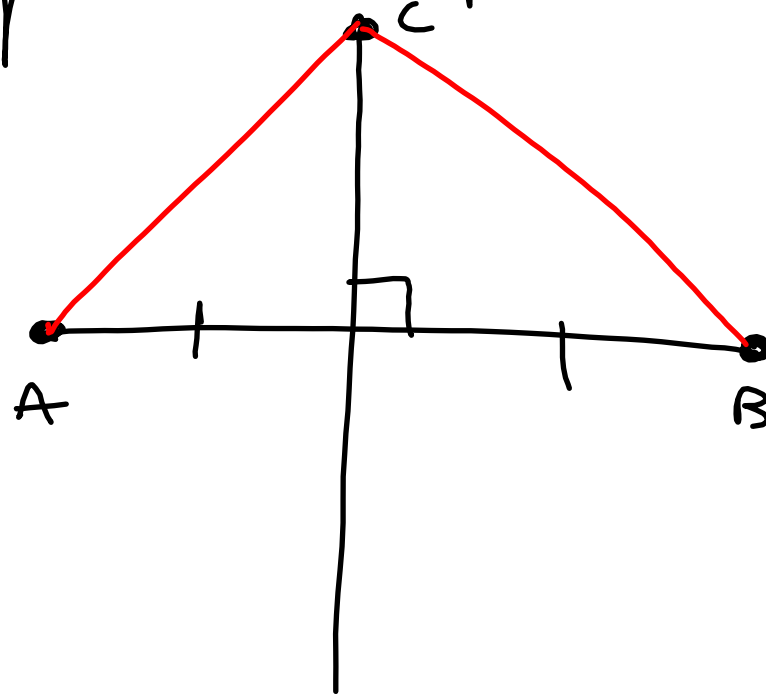
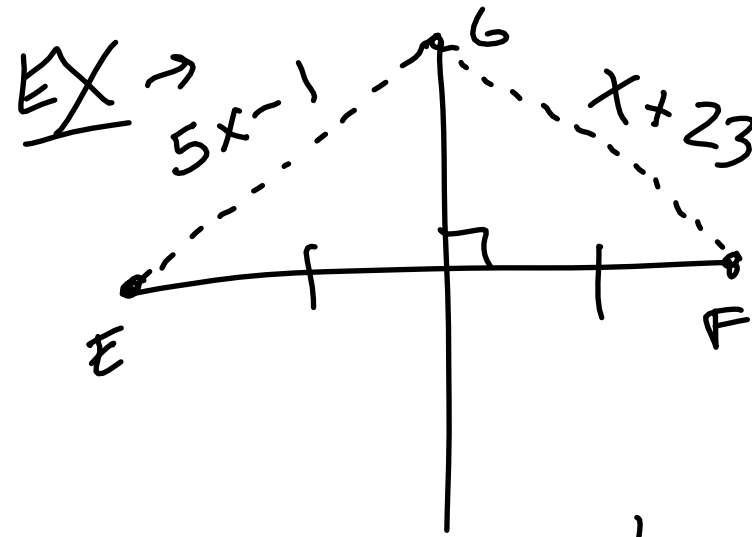


Perpendicular/Angle Bisectors

- points on perpendicular bisector are equidistant from endpoints



$$\overline{AC} \cong \overline{BC}$$

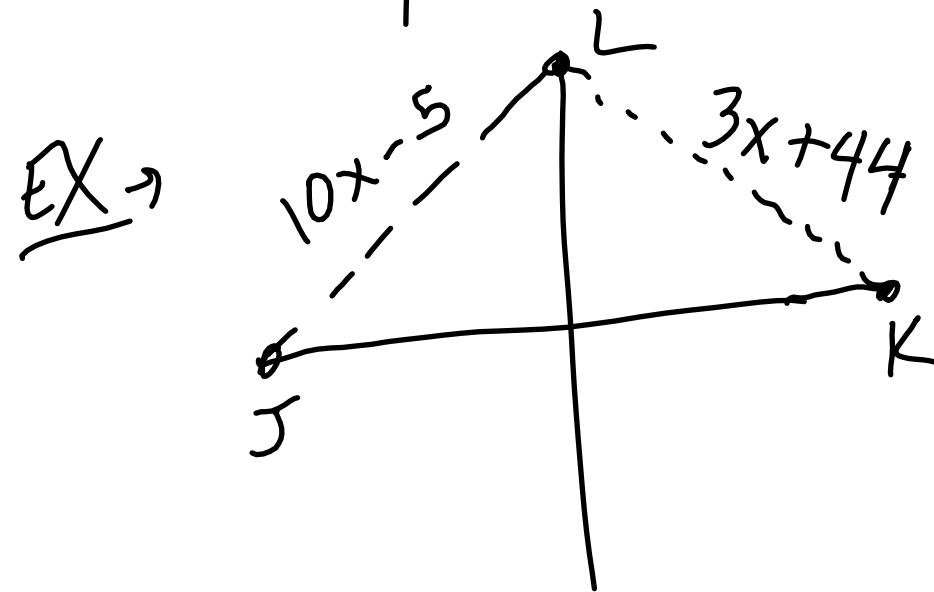


$$5x - 1 = x + 23$$

$$4x - 1 = 23$$

$$4x = 24$$

$$x = 6$$



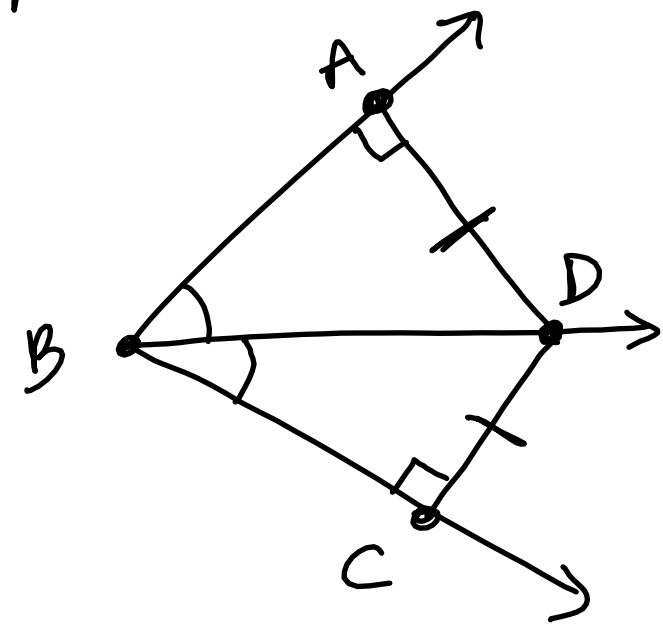
$$10x - 5 = 3x + 44$$

$$\begin{array}{r} -3x \\ \hline 7x - 5 = 44 \\ +5 \quad +5 \end{array}$$

$$\begin{array}{r} 7x = 49 \\ \hline x = 7 \end{array}$$

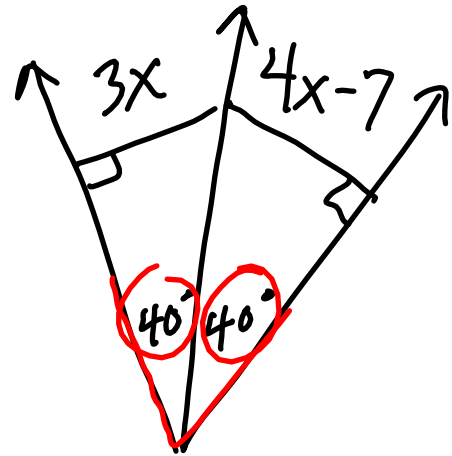
$$x = 7$$

- points on angle bisector are equidistant from sides of angle



$$\overline{AD} \cong \overline{CE}$$

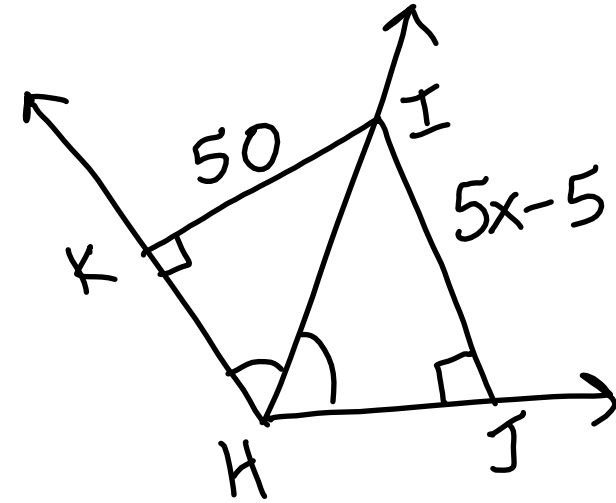
EX \rightarrow



$$\begin{aligned} 3x &= 4x - 7 \\ -4x &\quad -4x \\ \hline -x &= -7 \\ \frac{-x}{-1} &= \frac{-7}{-1} \end{aligned}$$

$$x = 7$$

EX \rightarrow



$$\begin{aligned} 5x - 5 &= 50 \\ +5 &\quad +5 \end{aligned}$$

$$\begin{aligned} 5x &= 55 \\ \frac{5x}{5} &= \frac{55}{5} \end{aligned}$$

$$x = 11$$

HW: p. 296 → 6-10, 12-22, 29-31, 40, 41