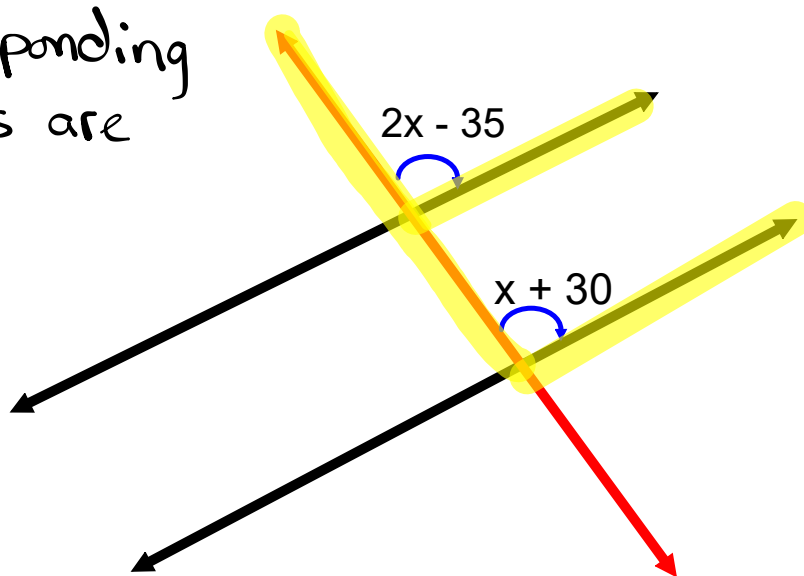


1. Solve for x and the indicated angles

Corresponding
Angles are
equal



$$\begin{aligned}2x - 35 &= x + 30 \\2x - x &= 30 + 35 \\x &= 65\end{aligned}$$

Angle #1

$$\underline{2x} - 35$$

$$2(\underline{65}) - 35$$

$$130 - 35$$

$$= 95^{\circ}$$

Angle #2

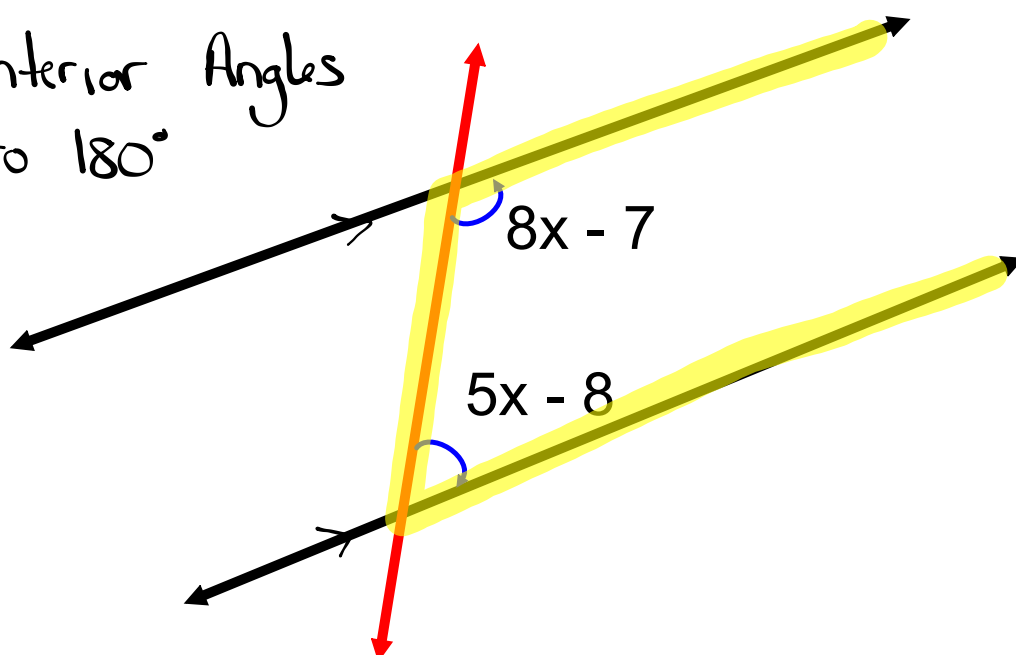
$$\underline{x} + 30$$

$$\underline{65} + 30$$

$$= 95^{\circ}$$

2. Solve for x and the indicated angles

Co-Interior Angles
add to 180°



$$\begin{aligned} \underline{8x} - 7 + \underline{5x} - 8 &= 180 \\ \underline{13x} - \underline{15} &= 180 \\ 13x &= 180 + 15 \\ \frac{13x}{13} &= \frac{195}{13} \\ \underline{x} &= \underline{15} \end{aligned}$$

Angle #1

$$\begin{aligned} \underline{8x} - 7 \\ \underline{8(15)} - 7 \\ 120 - 7 \\ = 113^{\circ} \end{aligned}$$

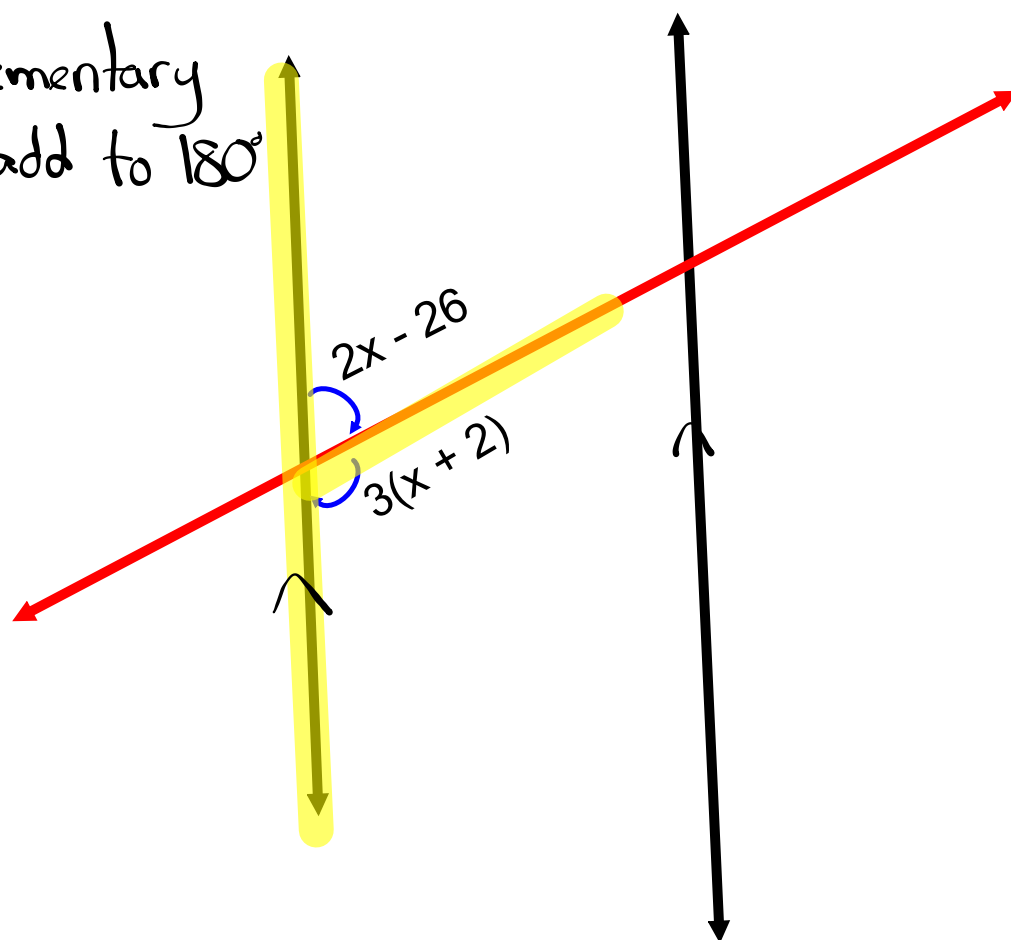
Angle #2

$$\begin{aligned} \underline{5x} - 8 \\ \underline{5(15)} - 8 \\ 75 - 8 \\ = 67^{\circ} \end{aligned}$$

$$113 + 67 = 180^{\circ}$$

3. Solve for x and the indicated angles

Supplementary
Angles add to 180°



$$2x - 26 + 3(x + 2) = 180^\circ$$

$$\underline{2x} - \underline{26} + \underline{3x} + \underline{6} = 180$$

$$\underline{5x} - 20 = 180$$

$$5x = 180 + 20$$

$$\frac{5x}{5} = \frac{200}{5}$$

$$\underline{x = 40}$$

Angle #1

$2\underline{x} - 26$

$2(\underline{40}) - 26$

$80 - 26$

$= 54^\circ$

Angle #2

$3(\underline{x} + 2) \quad 54 + 126 = 180^\circ$

$3(\underline{40} + 2)$

$3(42)$

$= 126^\circ$

Homework

Finish worksheet