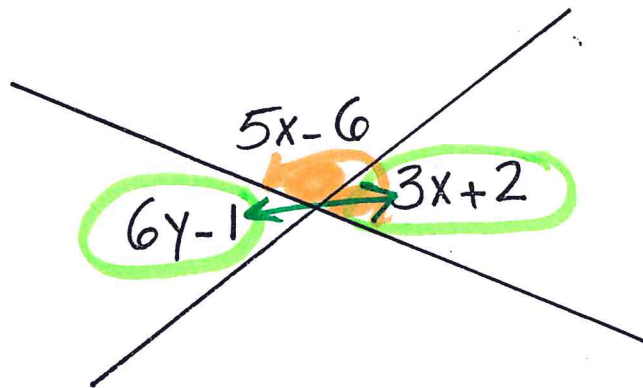


Name: Notes

Use Angles properties to Find x and y

Example 1



① Find x

$$5x - 6 + 3x + 2 = 180^\circ$$

$$\begin{array}{r} 8x - 4 = 180^\circ \\ +4 \quad +4 \\ \hline \end{array}$$

$$\frac{8x}{8} = \frac{184}{8}$$

$$\boxed{x = 23}$$

② Find y

$$3x + 2 = 6y - 1$$

$$3(23) + 2 = 6y - 1$$

$$69 + 2 = 6y - 1$$

$$71 = 6y - 1$$

$$\begin{array}{r} 71 = 6y - 1 \\ +1 \quad +1 \\ \hline 72 = 6y \\ \frac{72}{6} = \frac{6y}{6} \end{array} \quad \boxed{y = 12}$$

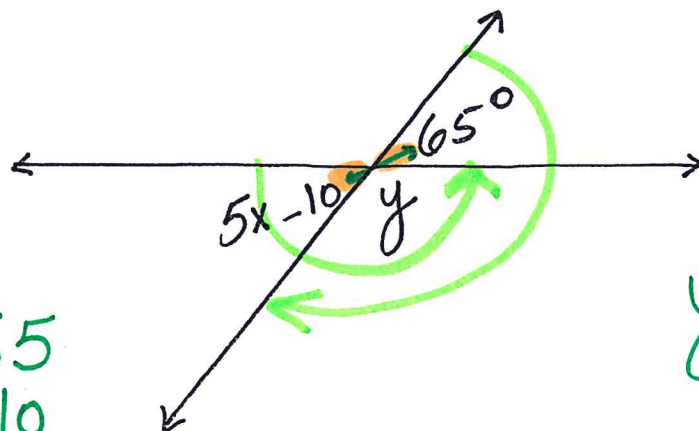
Example 2

Find x

$$\begin{array}{r} 5x - 10 = 65 \\ +10 \quad +10 \\ \hline \end{array}$$

$$\frac{5x}{5} = \frac{75}{5}$$

$$\boxed{x = 15}$$



② Find y

$$\begin{array}{r} y + 65 = 180^\circ \\ -65 \quad -65 \\ \hline \end{array}$$

$$\boxed{y = 115}$$