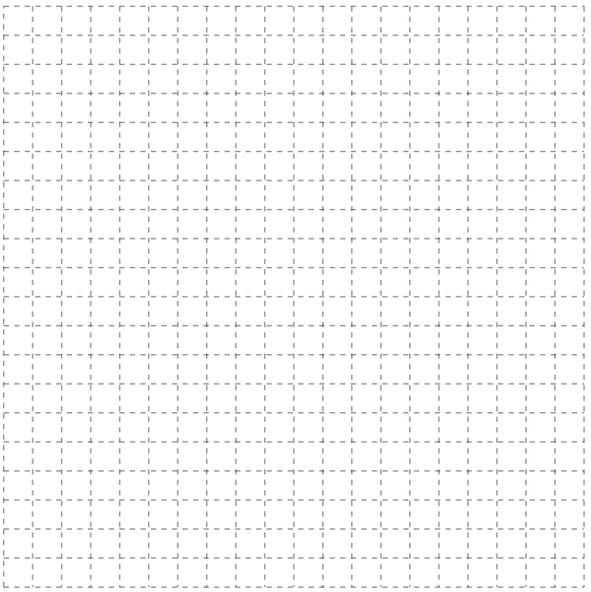
Check Up

1. Use the x- and y-intercepts to sketch the graph of $5x - 4y - 40 = 0$.



☑ Compare your answer.

1. Use the x- and y-intercepts to sketch the graph of $5x - 4y - 40 = 0$.

Determine the x-intercept by substituting 0 for y.

$$\begin{aligned} 5x - 4y - 40 &= 0 \\ 5x - 4(0) - 40 &= 0 \\ 5x - 40 &= 0 \\ 5x - \cancel{40} + \cancel{40} &= 0 + 40 \\ 5x &= 40 \\ \frac{\cancel{5}x}{\cancel{5}} &= \frac{40}{5} \\ x &= 8 \end{aligned}$$

Determine the y-intercept by substituting 0 for x.

$$\begin{aligned} 5x - 4y - 40 &= 0 \\ 5(0) - 4y - 40 &= 0 \\ -4y - 40 &= 0 \\ -4y - \cancel{40} + \cancel{40} &= 0 + 40 \\ -4y &= 40 \\ \frac{-4y}{-4} &= \frac{40}{-4} \\ y &= -10 \end{aligned}$$

Use the points $(8, 0)$ and $(0, -10)$ to sketch the graph of $5x - 4y - 40 = 0$.