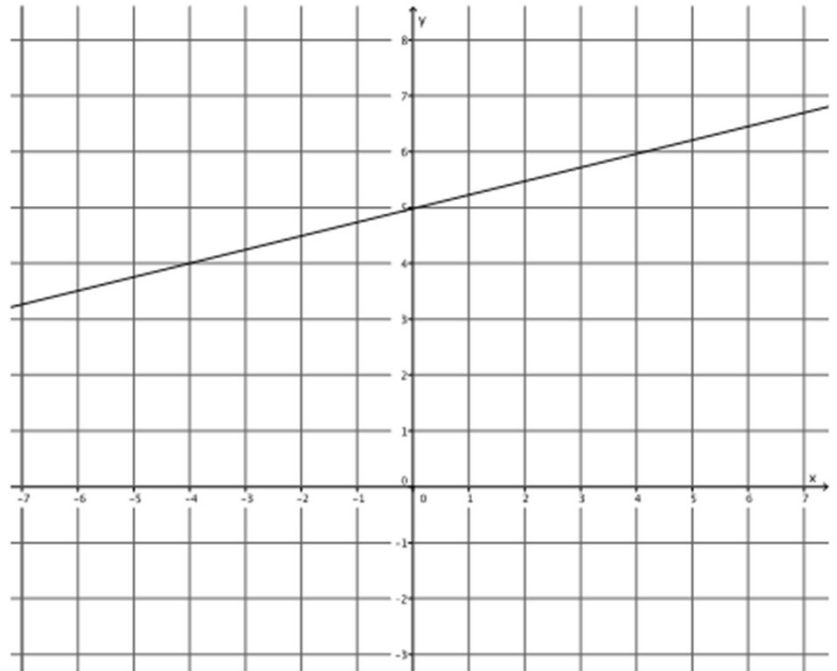


# Equation of a Line

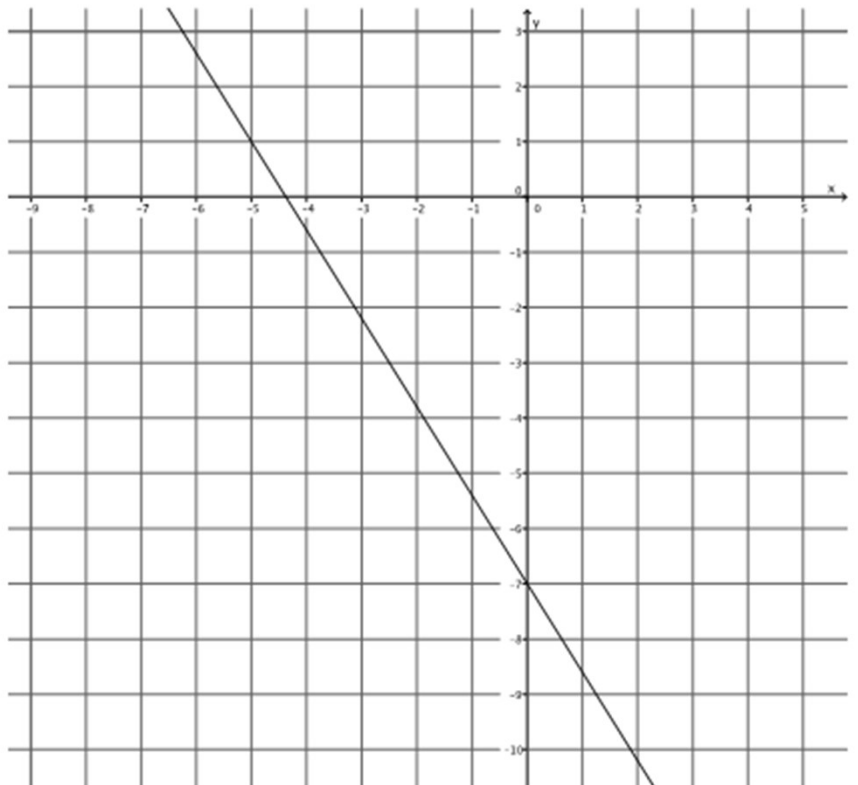
1. Write the equation (in slope-intercept form) that represents the line shown

Change the equation from slope-intercept form to standard form.



2. Write the equation (in slope-intercept form) that represents the line shown

Change the equation from slope-intercept form to standard form.



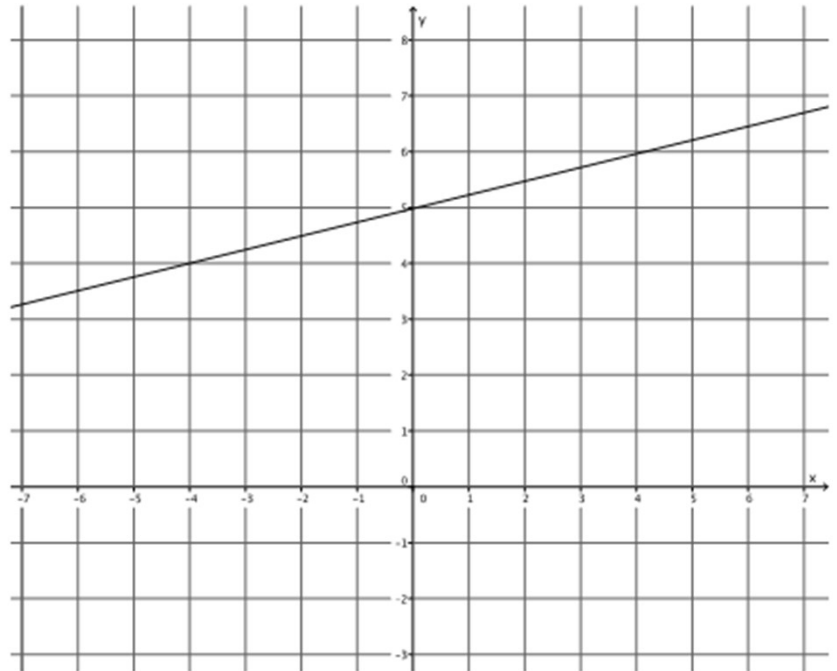
# Equation of a Line

1. Write the equation (in slope-intercept form) that represents the line shown

$$y = \frac{1}{4}x + 5$$

Change the equation from slope-intercept form to standard form.

$$\begin{aligned}y &= \frac{1}{4}x + 5 \\ \left(y = \frac{1}{4}x + 5\right) 4 \\ 4y &= x + 20 \\ -x + 4y &= x - x + 20 \\ -x + 4y &= 20 \\ -1(-x + 4y = 20) \\ x - 4y &= -20\end{aligned}$$



2. Write the equation (in slope-intercept form) that represents the line shown

$$y = -\frac{8}{5}x - 7$$

Change the equation from slope-intercept form to standard form.

$$\begin{aligned}y &= -\frac{8}{5}x - 7 \\ \left(y = -\frac{8}{5}x - 7\right) 5 \\ 5y &= -8x - 35 \\ 8x + 5y &= -8x + 8x - 35 \\ 8x + 5y &= -35\end{aligned}$$

