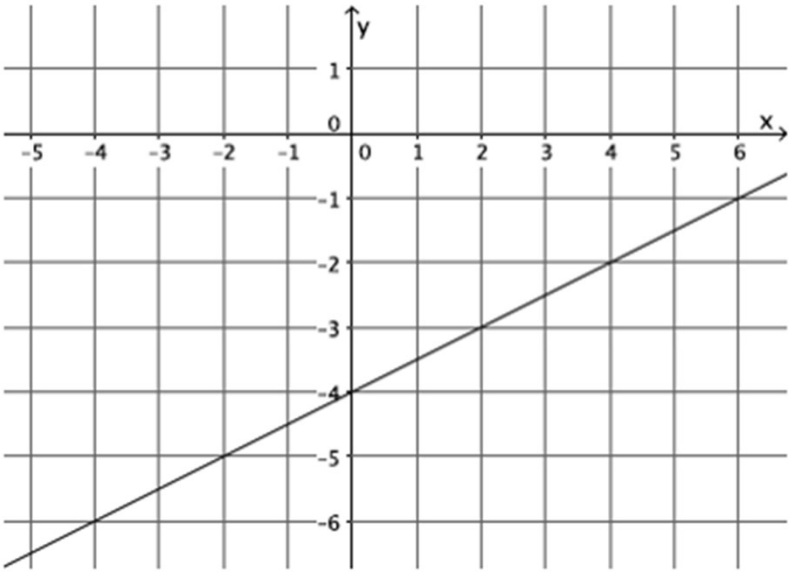
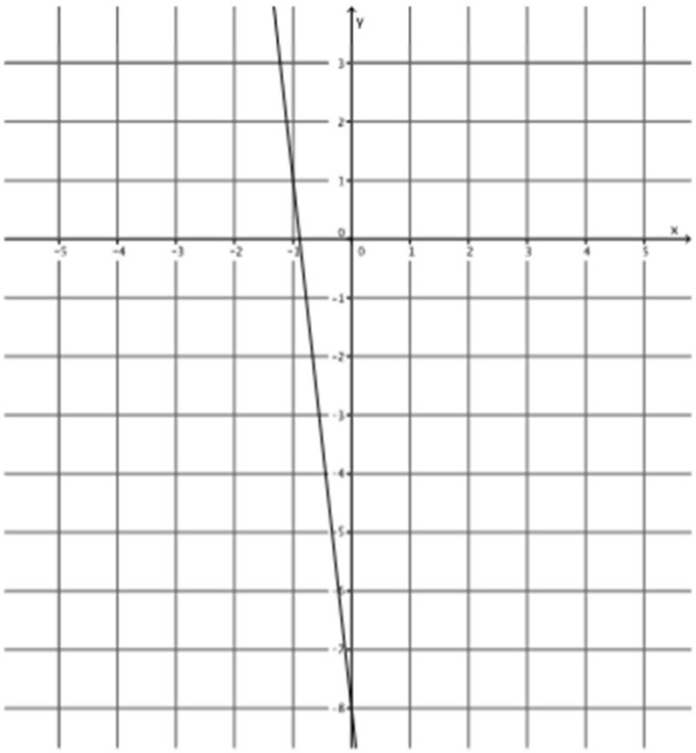
Equation of a Line

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.

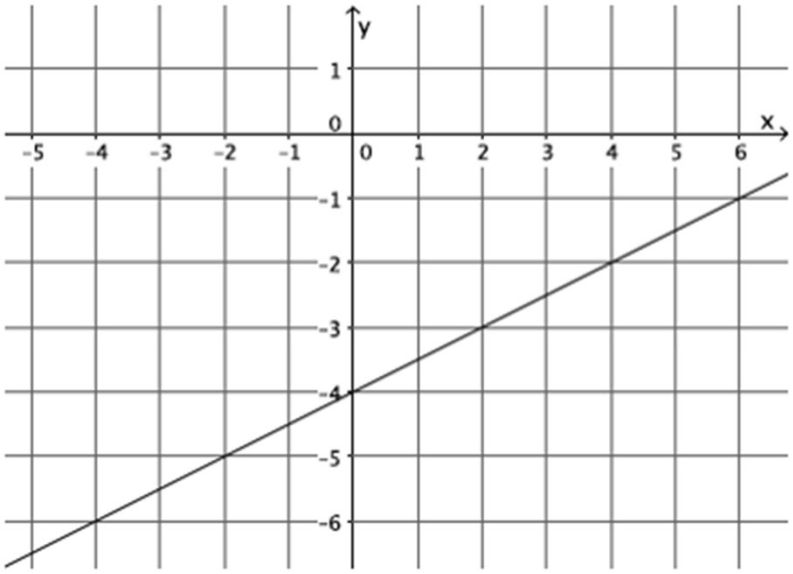


Change the equation from slope-intercept form to standard form.

Equation of a Line

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

$$y = \frac{1}{2}x - 4$$

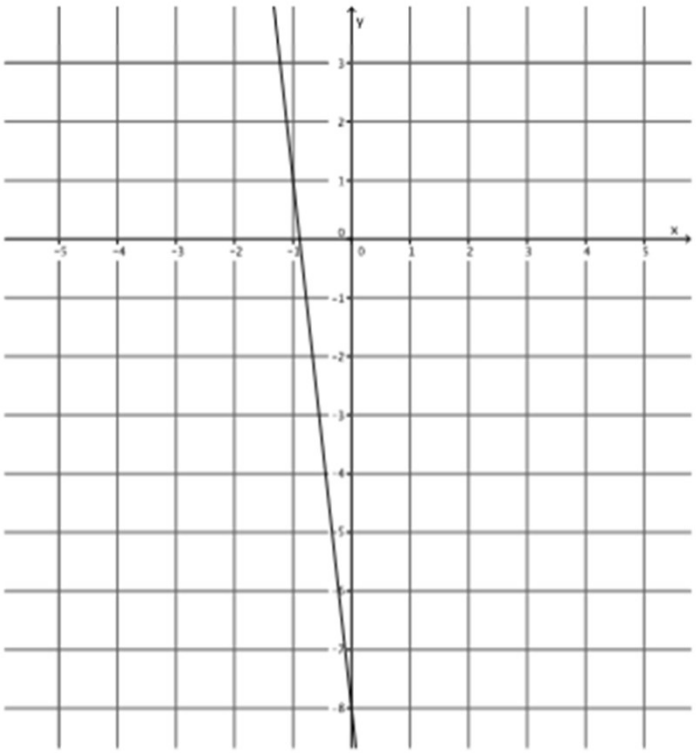


Change the equation from slope-intercept form to standard form.

$$y = \frac{1}{2}x - 4$$
$$\left(y = \frac{1}{2}x - 4\right)2$$
$$2y = x - 8$$
$$-x + 2y = x - x - 8$$
$$-x + 2y = -8$$
$$-1(-x + 2y = -8)$$
$$x - 2y = 8$$

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

$$y = -9x - 8$$



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

$$y = -9x - 8$$
$$9x + y = -9x + 9x - 8$$
$$9x + y = -8$$