5-3A Slope-Intercept Form

1. Find the slope: $y = -\frac{x}{3} - \frac{5}{3}$
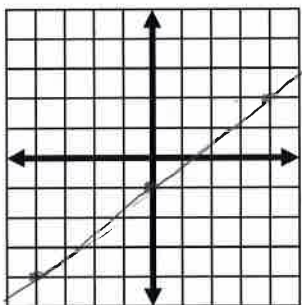
$$m = -\frac{1}{3}$$

2. Write the equation of the line with slope $\frac{1}{2}$ and y-intercept $-\frac{3}{2}$.

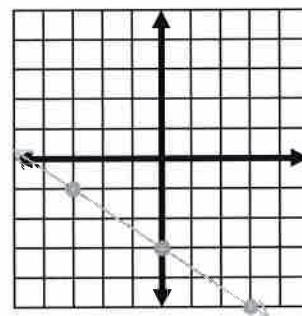$$y = \frac{1}{2}x - \frac{3}{2}$$

Graph the linear equation:

2. $y = \frac{3}{4}x - 1$

Write the linear equation from the graph:

4.

$$y = -\frac{2}{3}x - 3$$

5. Write the equation of the line with slope $\frac{1}{2}$ passing through (-6, 4)

$$y = \frac{1}{2}x + B$$
$$4 = \frac{1}{2}(-6) + B$$
$$4 = -3 + B$$
$$7 = B$$
$$y = \frac{1}{2}x + 7$$