

Slope Intercept Form and Standard Form Graphing

Standard Form

$$Ax + By = C$$

-Easiest way to graph:

- substitute 0 for x, find the y-intercept
- substitute 0 for y, find the x-intercept
- plot these points and draw the line through them

Slope-Intercept Form

$$y = mx + b$$

-Easiest way to graph:

- Plot the y-intercept (b)
- Write the slope (m) as a fraction. Use "change in y/change in x" to get more points on your line

Graph each equation. Use each coordinate plane for two graphs.

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

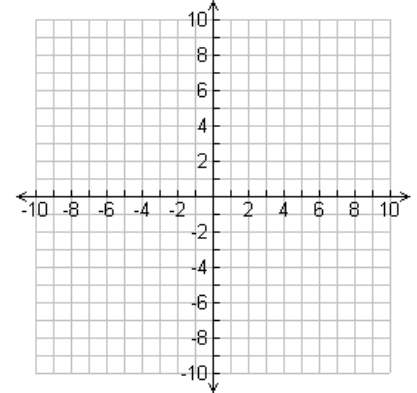
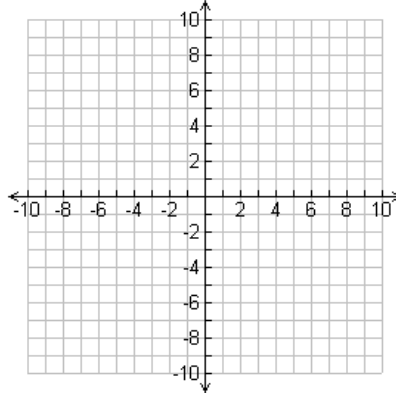
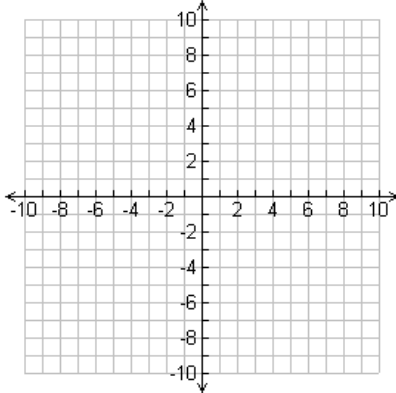
3) $-\frac{1}{4}x + y = 0$

5) $x = 0$

2) $4x - 6y = 24$

4) $y = -x - 7$

6) $5x + y = -10$



7. Jennifer started with \$50 in her savings account. Each week she withdrew \$10. The amount of money in her savings account after x weeks is represented by the function $y = 50 - 10x$.

a. Graph the function and find the intercepts.

b. What does each intercept represent?

