

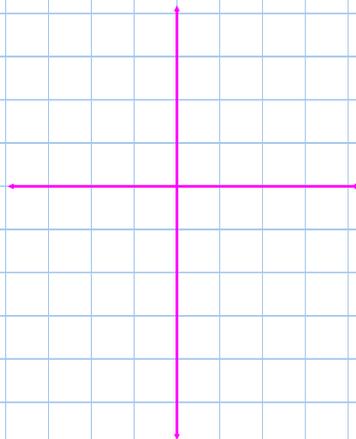
### Section 3.2: Graphs of Equations

#### Objectives:

- ★ Sketch graphs of equations using the point-plotting method.
- ★ Find and use x- and y- intercepts to sketch graphs.
- ★ Write an equation for an application and sketch the graph.

Graphing an equation:

$$y = 3x + 2$$



## ① EXAMPLE

Find the x-intercept, the y-intercept and one other point, then sketch the graph.

a)  $y = 4 - 3x$

b)  $y = |x + 5|$

c)  $y = 3 - x^2$

d)  $y = x(x-2)$

② EXAMPLE

Write an equation and draw the graph of it.

Zeno has \$15.00 and earns \$8.00 each week. How much will he have at the end of  $x$  weeks?

