Unit 2, Lesson 5

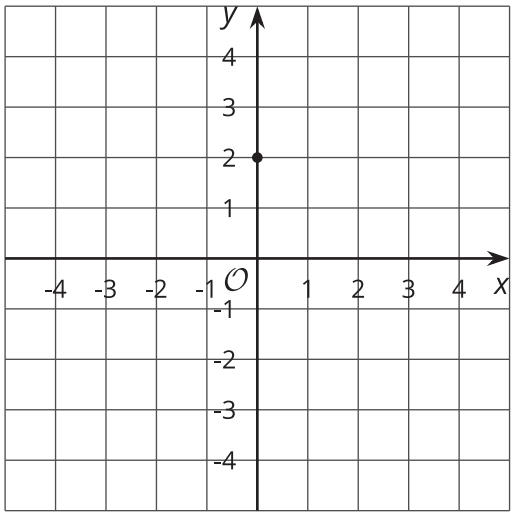
Graphs, Tables, and Equations

Let's connect different representations.

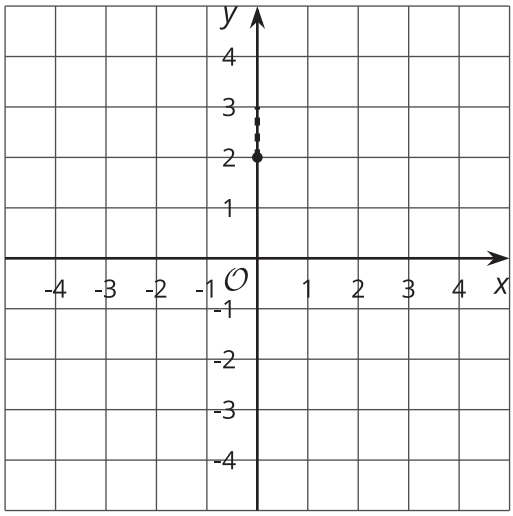
5.1 Worked Example: Graphing Linear Equations

Graph the equation $y = \frac{1}{3}x + 2$.

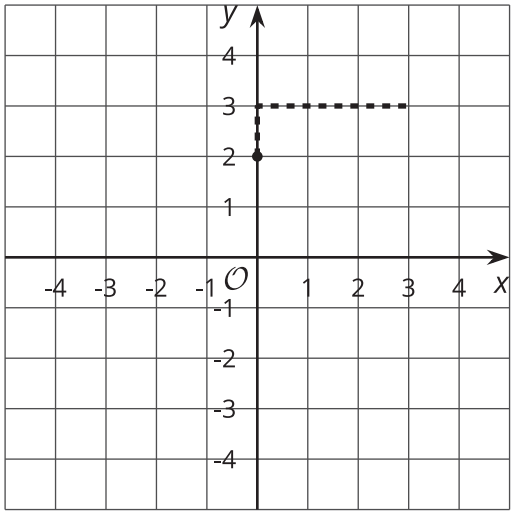
Step 1:



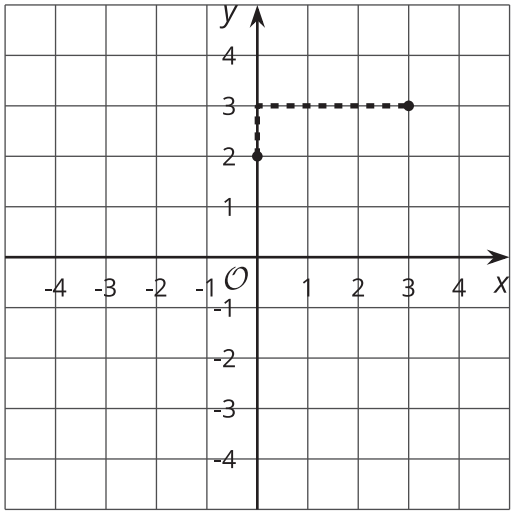
Step 2:



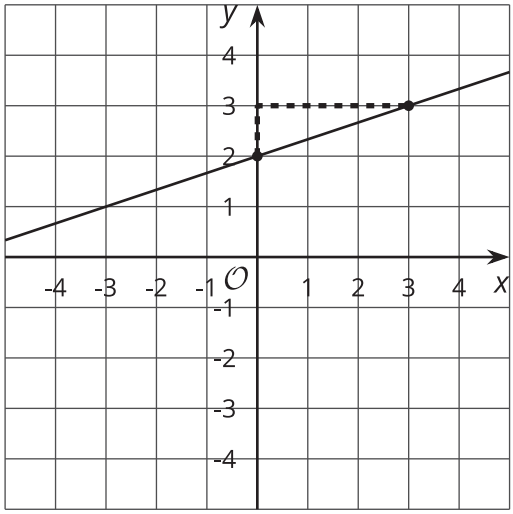
Step 3:



Step 4:



Step 5:



5.2 On the Line

1. Sketch a graph representing each of these equations.

   a. $y = 2x$

   b. $y = \frac{1}{2}x$

   c. $y = x + 2$

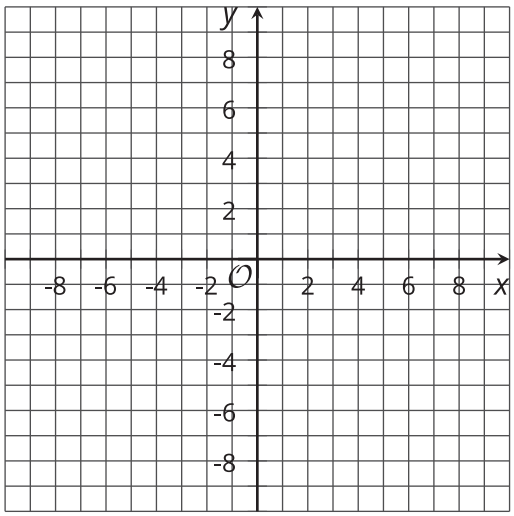
2. For each point, which graph or graphs is it on? How can you tell by using the equation?

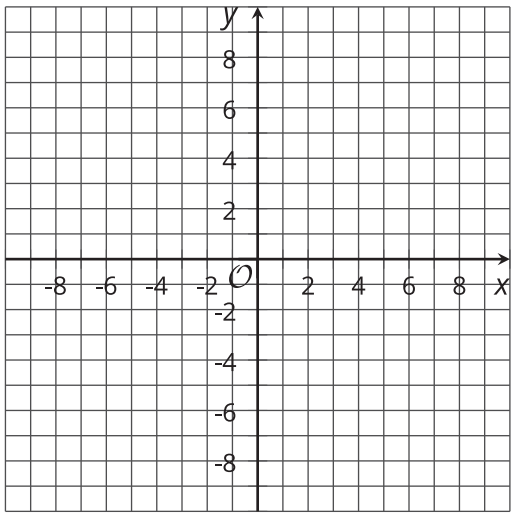
   a. $(1, 3)$

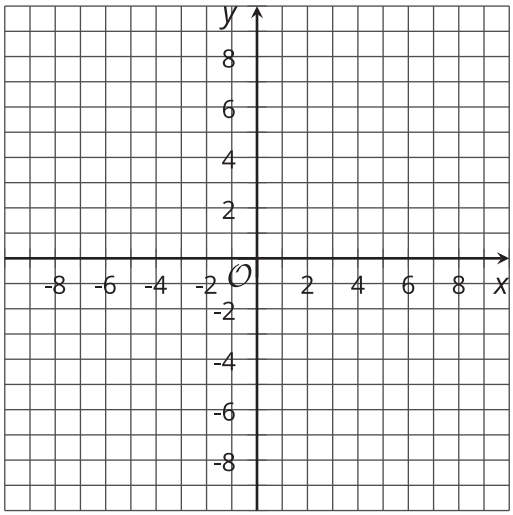
   b. $(0, 0)$

   c. $(3, 6)$

   d. $(3, 1.5)$







5.3 Card Sort: Graphs, Tables, Equations, and Situations

Your teacher will give you a set of cards. Take turns with your partner to match a graph with a set of a situation, equation, and table.

- For each match that you find, explain to your partner how you know it's a match.
- For each match that your partner finds, listen carefully to the explanation. If you disagree, discuss your thinking and work to reach an agreement.