

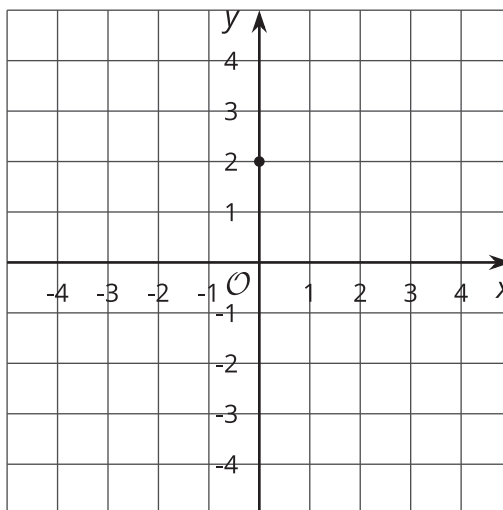
# Graphs, Tables, and Equations

Let's connect different representations.

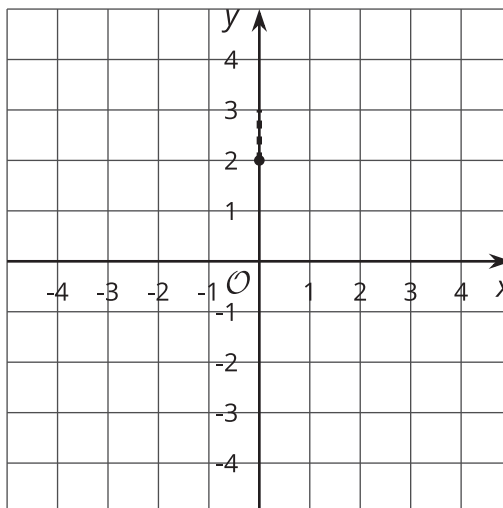
## 5.1 Worked Example: Graphing Linear Equations

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

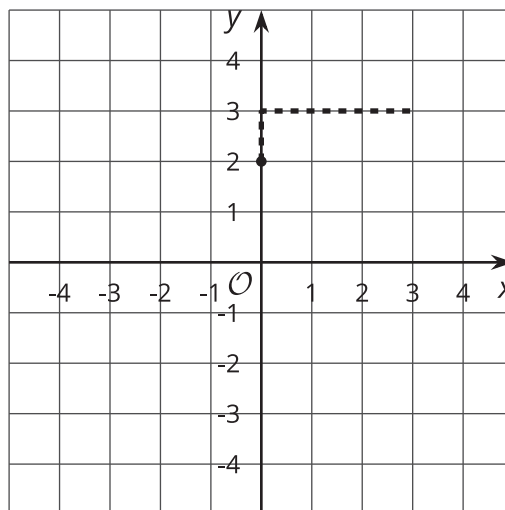
Step 1:



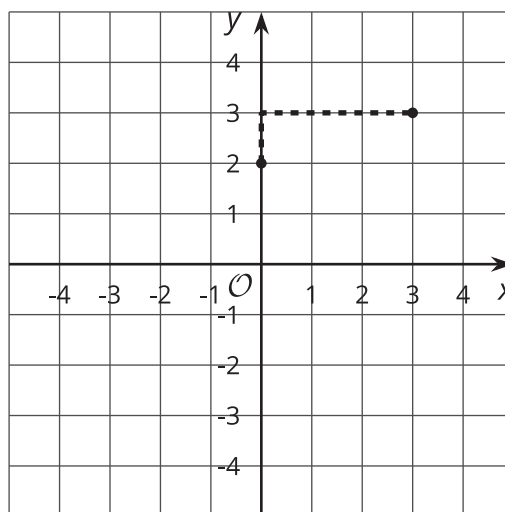
Step 2:



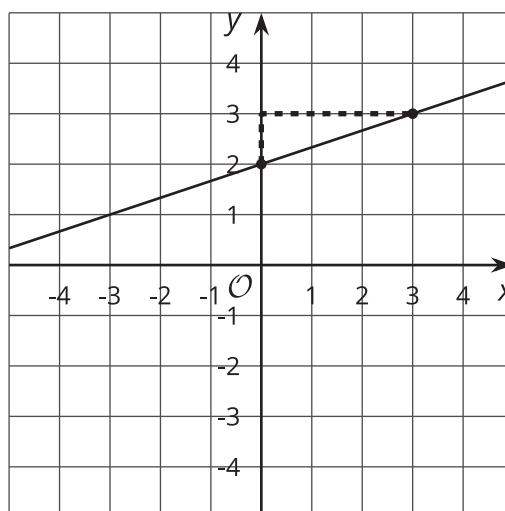
Step 3:



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.  $y = x + 2$

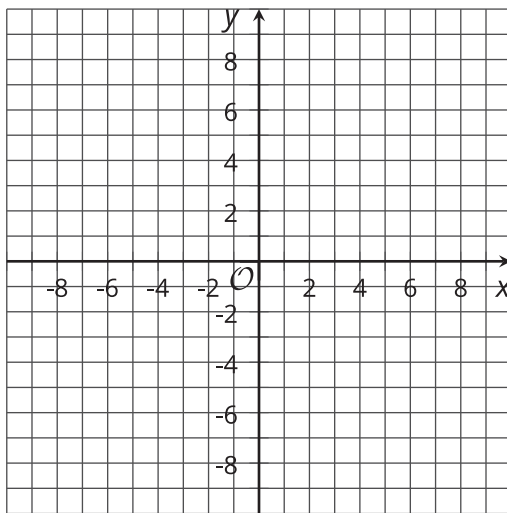
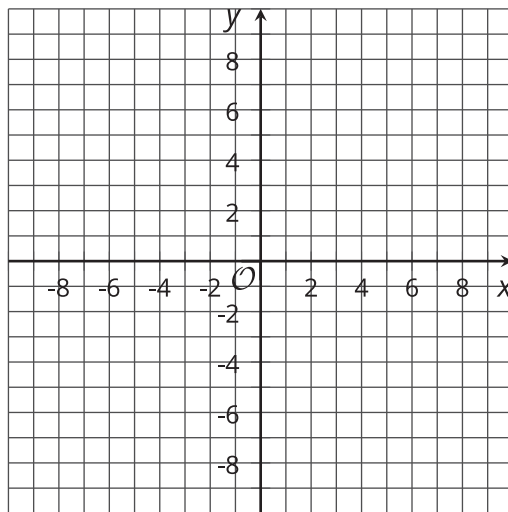
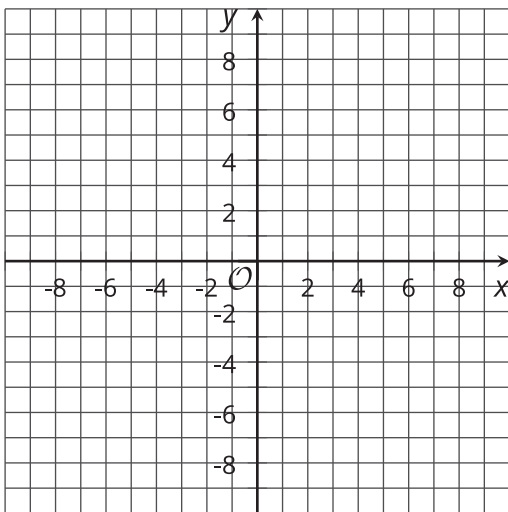
2. For each point, which graph or graphs is it on? How can you tell by using the equation?

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.



