

The Slope of a Line

1. (a) Plot the points whose coordinates are given below on the coordinate plane on the right.

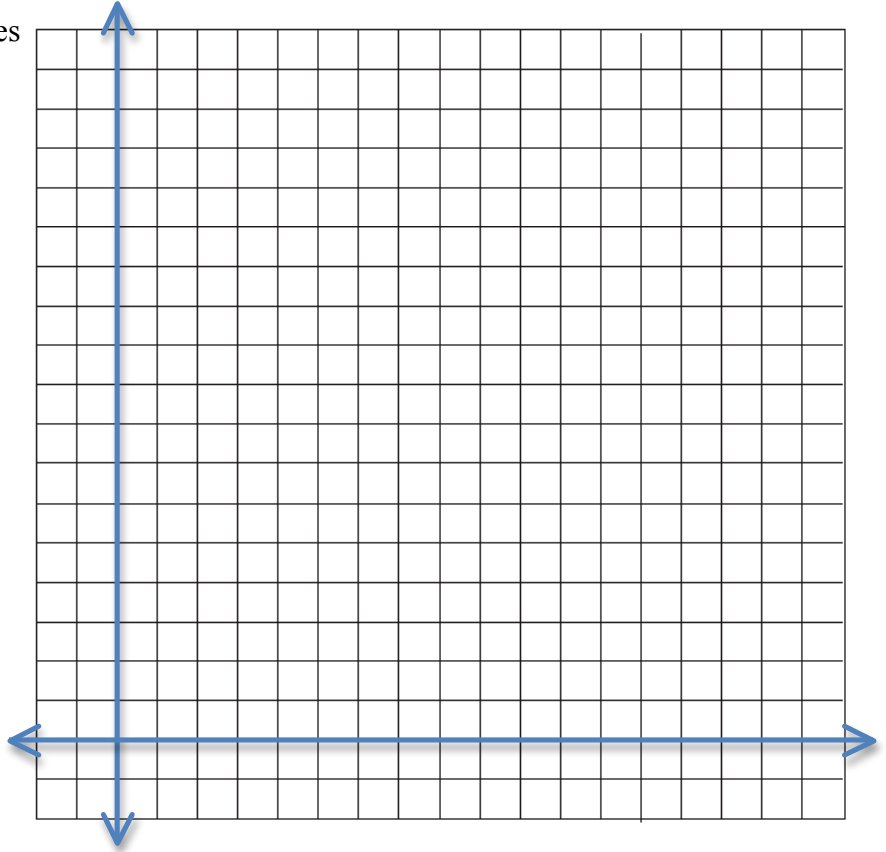
$$A(2, 3)$$

$$B(7, 6)$$

$$C(7, 3)$$

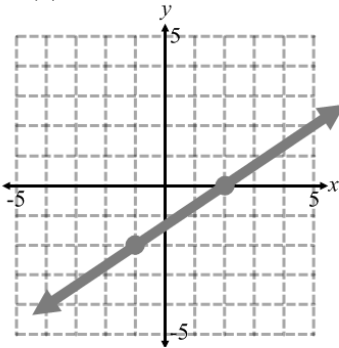
$$D(12, 5)$$

- (b) Connect A to B .
 (c) Connect C to D .
 (d) Which segment is longer?
 (e) In what other way could these segments be compared?

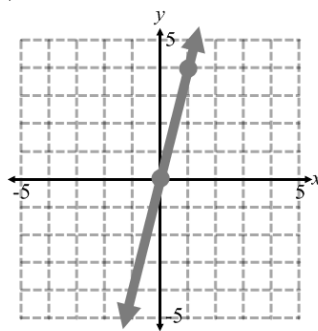


2. Find the slope of each line:

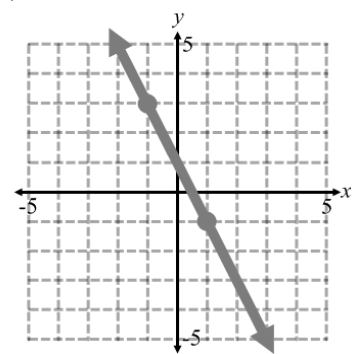
(a)



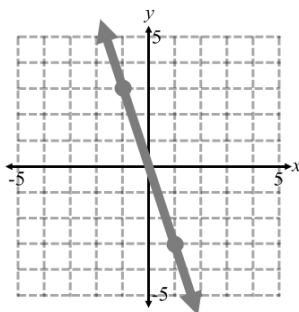
(b)



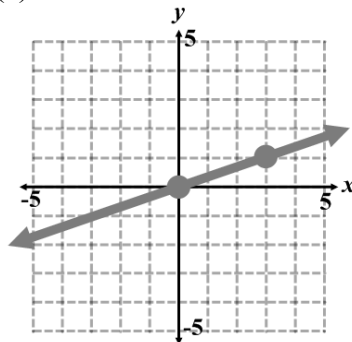
(c)



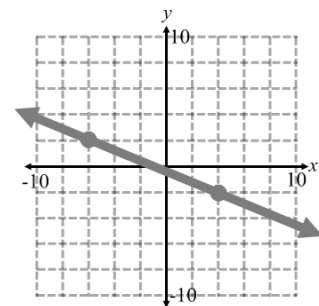
(d)



(e)



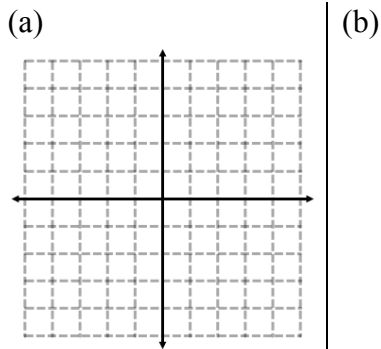
(f)



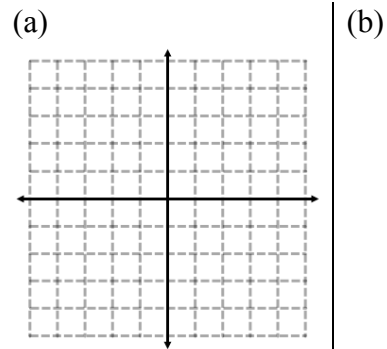
3. What is the slope of the line that passes through the points $(-3, 5)$ and $(-2, -1)$?

4. What is the slope of the line that passes through the points $(-4, -2)$ and $(3, 1)$?

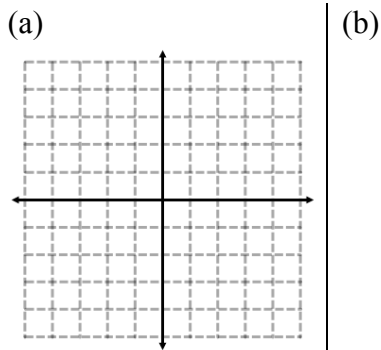
5. Find the slope of the line that passes through the points $(-1, -3)$ and $(1, 1)$
(a) by graphing the points.
(b) using the slope formula.



6. Find the slope of the line that passes through the points $(5, 2)$ and $(3, -3)$
(a) by graphing the points.
(b) using the slope formula.



7. Find the slope of the line that passes through the points $(-4, 1)$ and $(0, 0)$
(a) by graphing the points.
(b) using the slope formula.



8. Find the slope of the line that passes through the points $(-3, -2)$ and $(-5, -3)$
(a) by graphing the points.
(b) using the slope formula.

