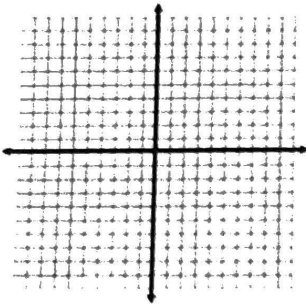


Plot the points and draw a line through them. Then tell whether the slope of the line is *positive*, *negative*, *zero*, or *undefined*.

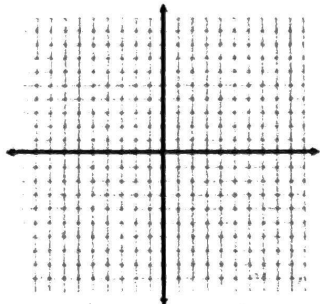
DRAW

1. x_1, y_1 and x_2, y_2
 1. (1, -4) and (5, -8)



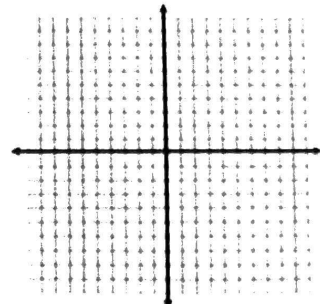
Negative

2. x_1, y_1 and x_2, y_2
 2. (-3, 6) and (-3, 0)



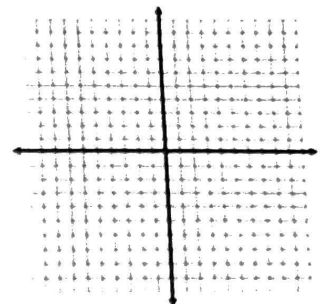
Undefined vertical line

3. (7, 1) and (-2, 1)



0 = constant slope

4. (-4, -5) and (-3, -2)



3

Find the slope of the line that passes through the points.

5. x_1, y_1 and x_2, y_2
 (1, 2) and (7, 7)

$$a = \frac{7-2}{7-1} = \frac{5}{6}$$

6. (3, 4) and (-5, 0)

$$a = \frac{0-4}{-5-3} = \frac{-4}{-8} = \frac{1}{2}$$

7. (5, -2) and (5, 8)

$$a = \frac{8 - -2}{5 - 5} = \frac{10}{0}$$

Undefined

8. (3, 0) and (8, 0)

$$a = \frac{0-0}{8-3} = 0$$

9. (-6, -6) and (-2, -2)

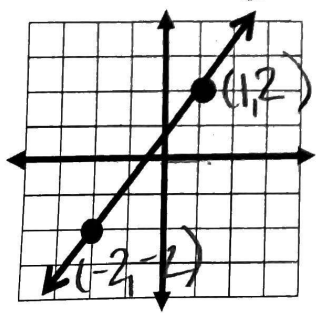
$$a = \frac{-2 - -6}{-2 - -6} = \frac{4}{4} = 1$$

10. (-5, -4) and (1, -2)

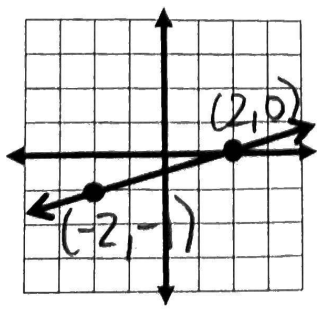
$$a = \frac{-2 - -4}{1 - -5} = \frac{2}{6} = \frac{1}{3}$$

Find the slope of the line that passes through the points.

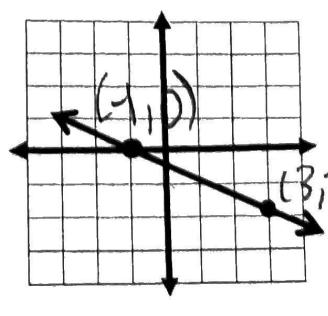
11. Slope = $\frac{4}{3}$



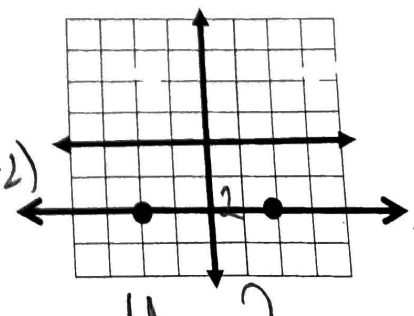
12. Slope = $\frac{1}{4}$



13. Slope = $-\frac{1}{2}$



14. Slope = _____



15. A ramp has a rise of 10 feet and a run of 50 feet. Find its slope.

$$a = \frac{\text{rise}}{\text{run}} = \frac{10}{50} = \frac{1}{5}$$

$y = 2$
 (horizontal slope
 No 'x')