

408 Find the slope and equation of a line

Find the slope of a line passing between the given points.

1. $(-2,2)$ $(3,1)$

2. $(-3,4)$ $(5,0)$

Find the slope and the x and y intercepts of the following lines.

7. $2x - 3y = 6$

8. $-3y = -x + 4$

Find the equation of a line in slope/intercept form given that:

9. Passing through $(-2,2)$ with slope 3

10. Passing through $(0,3)$ and $(3,5)$

11. Passing through $(-2,4)$ and $(4,4)$

12. Passing through $(3,-3)$ and $(3,5)$

SOLUTIONS

Find the slope of a line passing between the given points.

1. $(-2,2)$ $(3,1)$

$$m = -1/5$$

2. $(-3,4)$ $(5,0)$

$$m = -1/2$$

Find the slope and the x and y intercepts of the following lines.

7. $2x - 3y = 6$

$$m = 2/3$$

$(0,-2)$ y intercept
 $(3,0)$ x intercept

8. $-3y = -x + 4$

$$m = 1/3$$

$(0,-4/3)$ y intercept
 $(4,0)$ x intercept

Find the equation of a line in slope/intercept form given that:

9. Passing through $(-2,2)$ with slope 3

$$y = 3x + 8$$

10. Passing through $(0,3)$ and $(3,5)$

$$y = \frac{2}{3}x + 3$$

11. Passing through $(-2,4)$ and $(4,4)$

$$y = 4$$

12. Passing through $(3,-3)$ and $(3,5)$

$$x = 3$$