

Name: _____ Date: _____

1. Find the x - and y -intercepts of the line $y = -3x - 9$.
2. Find the x - and y -intercepts of the line $y = -2x - 6$.
3. Find the x - and y -intercepts and then graph: $x - 3y = 0$
4. Find the x - and y -intercepts and then graph: $x + y = 2$
5. Use $f(0)$ to help you find the y -intercept point of the equation.
$$f(x) = \frac{9}{5}x - 3$$
6. Use $f(0)$ to help you find the y -intercept point of the equation.
$$f(x) = -\frac{5}{3}x + 2$$
7. Use $f(0)$ to help you find the y -intercept point of the equation.
$$f(x) = -\frac{4}{3}x + 2$$
8. Use $f(0)$ to help you find the y -intercept point of the equation.
$$f(x) = \frac{2}{5}x - 4$$
9. Use $f(x) = 0$ to help you find the x -intercept point of the equation.
$$f(x) = -\frac{7}{4}x - 8$$

10. Use $f(x) = 0$ to help you find the x -intercept point of the equation.

$$f(x) = -\frac{8}{7}x + 5$$

11. Use $f(x) = 0$ to help you find the x -intercept point of the equation.

$$f(x) = -\frac{5}{7}x + 6$$

12. Use $f(x) = 0$ to help you find the x -intercept point of the equation.

$$f(x) = \frac{7}{2}x + 5$$

13. Use $f(x) = 0$ to help you find the x -intercept point of the equation.

$$f(x) = \frac{4}{5}x + 9$$

14. Use $f(x) = 0$ to help you find the x -intercept point of the equation.

$$f(x) = \frac{2}{3}x - 1$$

15. Find the slope of the line containing the given points.

$$P_1(-3, 10), P_2(0, 4)$$

16. Find the slope of the line containing the given points.

$$P_1(-1, 1), P_2(3, 9)$$

17. Find the slope of the line containing the given points.

$$P_1(3, -5), P_2(8, -20)$$

18. Find the slope of the line containing the given points.

$$P_1(1,3), P_2(2,1)$$

19. Find the slope of the line containing the given points.

$$P_1(-1,6), P_2(-1,10)$$

20. Find the slope of the line containing the given points.

$$P_1(3,1), P_2(5,-4)$$

21. Find the slope of the line containing the given points.

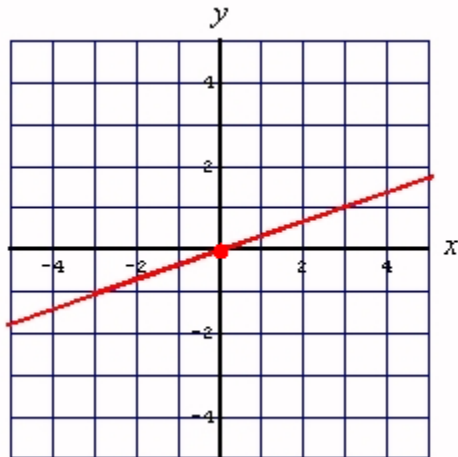
$$P_1(3,-2), P_2(5,3)$$

22. Find the slope of the line containing the given points.

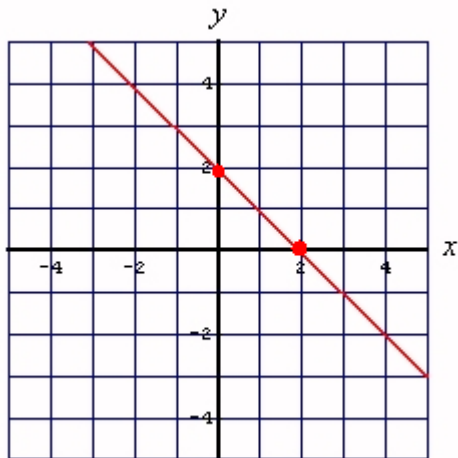
$$P_1(0,-1), P_2(3,4)$$

Answer Key

1. x-intercept: $(-3, 0)$, y-intercept: $(0, -9)$
2. x-intercept: $(-3, 0)$, y-intercept: $(0, -6)$
3. x-intercept: $(0, 0)$, y-intercept: $(0, 0)$



4. x-intercept: $(2, 0)$, y-intercept: $(0, 2)$



5. $(0, -3)$
6. $(0, 2)$
7. $(0, 2)$
8. $(0, -4)$
9. $\left(-\frac{32}{7}, 0\right)$
10. $\left(\frac{35}{8}, 0\right)$

11. $\left(\frac{42}{5}, 0\right)$

12. $\left(-\frac{10}{7}, 0\right)$

13. $\left(-\frac{45}{4}, 0\right)$

14. $\left(\frac{3}{2}, 0\right)$

15. -2

16. 2

17. -3

18. -2

19. Undefined

20. $-\frac{5}{2}$

21. $\frac{5}{2}$

22. $\frac{5}{3}$