

Writing Equations of Lines--4 Types

Type I--Write the equation of the line using $y = mx + b$.

1) Slope = -1 , y-intercept = 1

2) Slope = 3 , y-intercept = -1

3) Slope = 2 , y-intercept = -5

4) Slope = -2 , y-intercept = 3

5) Slope = $-\frac{7}{5}$, y-intercept = -4

6) Slope = 3 , y-intercept = -4

Type II--Write the equation of the line.

First find the slope using $m = \frac{y_2 - y_1}{x_2 - x_1}$

Then use $y = mx + b$

7) through: $(0, -1)$ and $(3, 2)$

8) through: $(4, -2)$ and $(0, 3)$

9) through: $(0, -1)$ and $(3, 3)$

10) through: $(-2, 0)$ and $(0, 5)$

11) through: $(3, 2)$ and $(0, -4)$

12) through: $(0, 4)$ and $(1, 3)$

Type III--Write the equation of the line using $y - y_1 = m(x - x_1)$.

13) through: $(1, 1)$, slope = 4

14) through: $(-5, -2)$, slope = $\frac{4}{5}$

15) through: $(5, 0)$, slope = $-\frac{3}{5}$

16) through: $(-5, 4)$, slope = $-\frac{1}{2}$

17) through: $(4, -4)$, slope = $-\frac{9}{4}$

18) through: $(-4, 4)$, slope = -2

Type IV--Write the equation of the line.

First find the slope using $m = \frac{y_2 - y_1}{x_2 - x_1}$

Then use $y - y_1 = m(x - x_1)$

19) through: $(3, 4)$ and $(-3, 2)$

20) through: $(4, 3)$ and $(6, -1)$

21) through: $(-3, -1)$ and $(-1, -2)$

22) through: $(2, 5)$ and $(6, 4)$

23) through: $(1, 4)$ and $(2, 1)$

24) through: $(5, 3)$ and $(-5, -1)$