

Name: _____

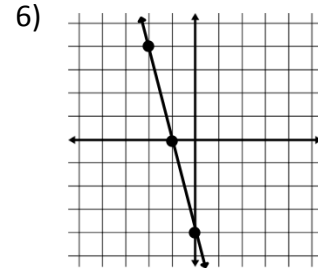
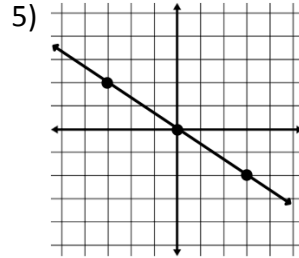
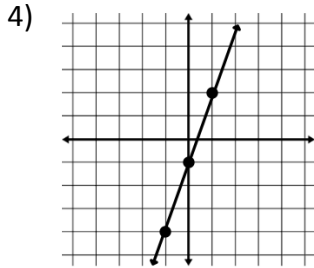
Writing Equations of Lines

Write the equation of a line given the slope and y-intercept. ($y = mx + b$)

1) slope = -2, y-intercept = 7

2) slope = 4 y-intercept = -1

3) slope = $-\frac{2}{3}$, y-intercept = -2



Slope = _____ y-int = _____

Slope = _____ y-int = _____

Slope = _____ y-int = _____

Equation: _____

Equation: _____

Equation: _____

Write the equation of a line given a table.

7)

x	y
-2	-11
0	-5
2	1
4	7

8)

x	y
5	3
10	8
15	13
20	18

Slope = _____ y-int = _____ equation: _____

Slope = _____ y-int = _____ equation: _____

Write the equation of a line given the slope of the line and a point on that line.

Steps: 1) plug m, x, and y into $y = mx + b$

2) solve for b

3) plug m and b into $y = mx + b$

10) $m = 5$; (2, 4)

11) $m = -\frac{1}{2}$; (4, -1)

12) $m = -1$; (-5, 3)

13) $m = -1$; (4, -3)

14) $m = 2$; (-5, -6)

15) $m = 3$; (-7, 2)

16) $m = -2$; (3, 5)

17) $m = \frac{1}{5}$; (5, -1)

18) $m = \frac{1}{4}$; (-3, -2)

19) $m = 0$; (-7, 4)

20) $m = 0$; (6, -2)

21) $m = 0$; (0, 10)

22) $m = \text{und}$; (3, -4)

23) $m = \text{und}$; (-1, -1)

24) $m = \text{und}$; (0, 5)