Name: _____ Period: _____ SCORE:_____/_____=_____%=_____
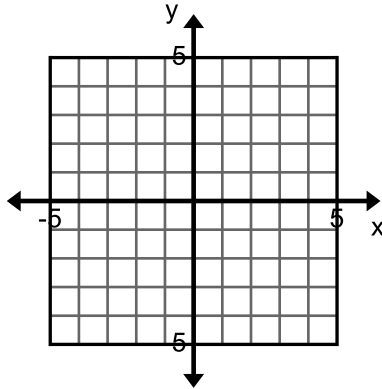
HW 2-4: Slope-Intercept Form

Identify the slope (*m*), *y*-intercept (*b*) when indicated and then graph the equation.
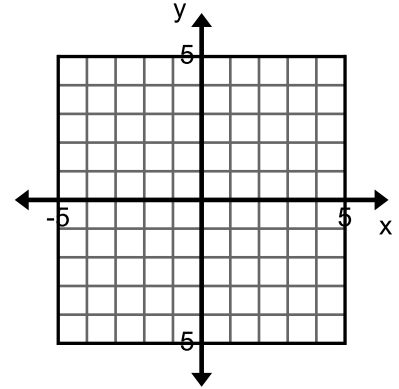
1. $y = \dfrac{4}{5}x - 1$

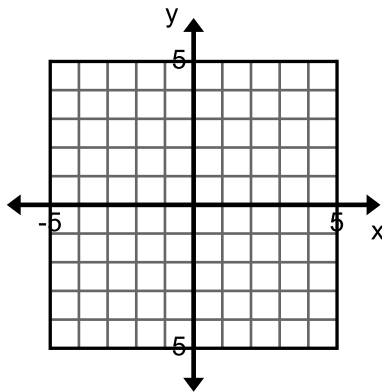*m* = _____

b = _____

5. $y = x$

m = _____

b = _____
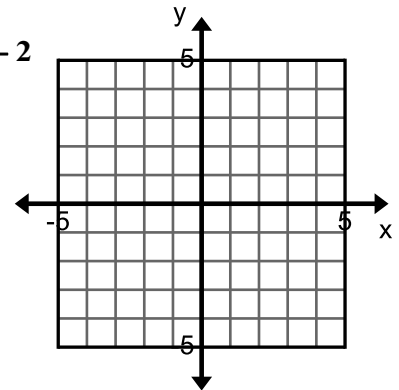
2. $y = -\dfrac{7}{5}x + 4$

m = _____

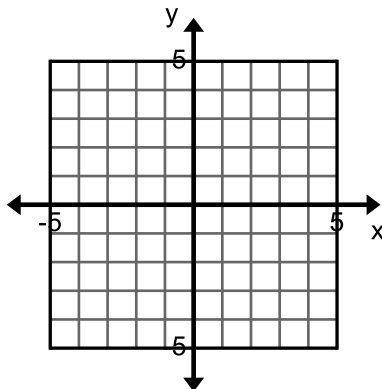*b* = _____

6. $y = \dfrac{1}{3}x - 2$

m = _____

b = _____
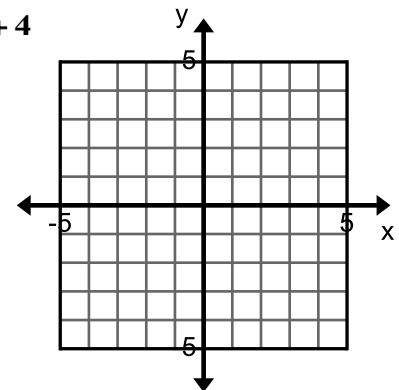
3. $y = 3x - 5$

m = _____
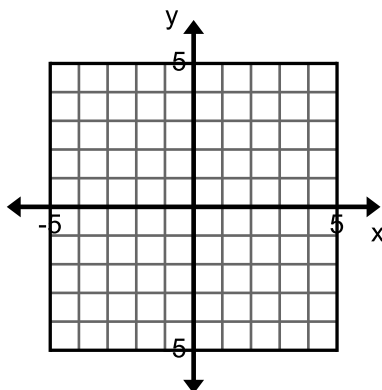
b = _____

7. $y = -x + 4$

m = _____

b = _____

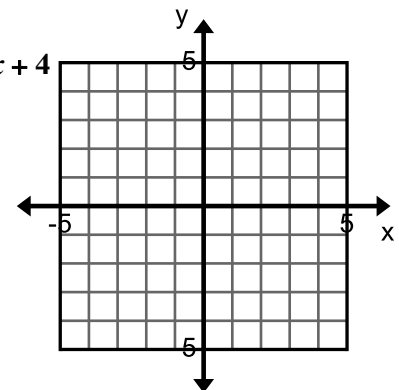4. $y = -2x + 2$

m = _____

b = _____

8. $y = -\dfrac{7}{5}x + 4$
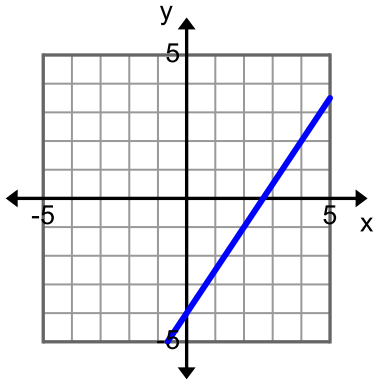
m = _____

b = _____

Given the graphs, identify the slope (*m*), *y*-intercept (*b*) and write the equation of the line.

9.

m = _____   *b* = _____
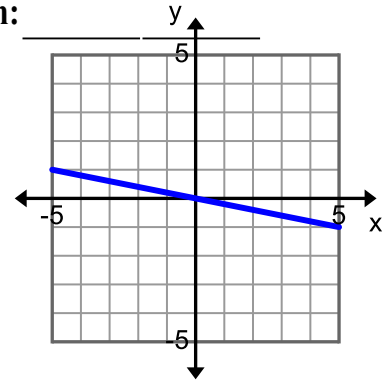
Equation: _____

10.

m = _____   *b* = _____
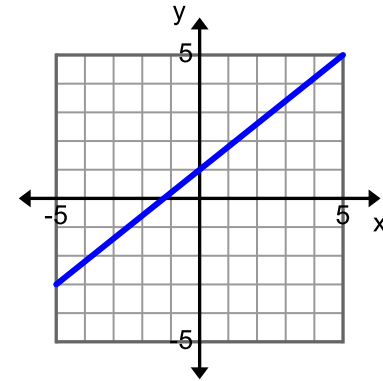
Equation: _____

11.

m = _____   *b* = _____

Equation: _____

12.

m = _____   *b* = _____

Equation: _____
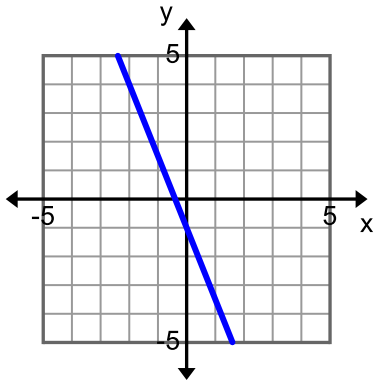
13.

m = _____   *b* = _____

Equation: _____
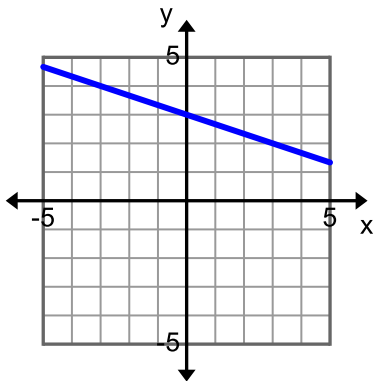
14.
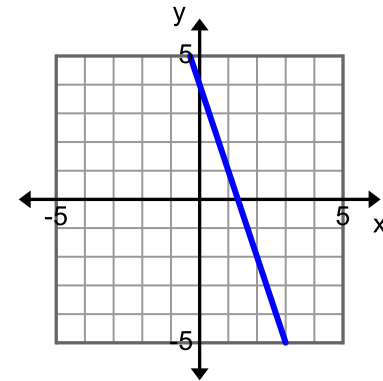
m = _____   *b* = _____

Equation: _____

Write an equation for each line given the table below.

15.

x	y
−5	25
0	30
5	35
10	40

Equation: _____

16.

x	y
−2	−8.50
0	0
1	4.25
3	12.75

Equation: _____

17.

x	y
0	5
100	6
300	8
1500	20

Equation: _____

18.

x	y
−10	5
−3	5
0	5
2	5
7	5

Equation: _____

19.

x	y
−2	4
−1	1
0	−2
2	−8

Equation: _____

20.

x	y
−4	−13
−4	−8
−4	0
−4	3
−4	9

Equation: _____

Write an equation of a line in slope-intercept form with the given slope and *y*-intercept.

21. slope: $\dfrac{1}{2}$; *y*-intercept: **6**

22. slope: **−2** ; *y*-intercept: **3**