Name: _____ Period: _____ SCORE: _____/_____ = _____%= _____

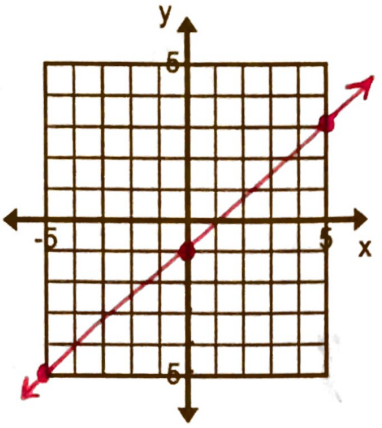
HW 2-4: Slope-Intercept Form

Identify the slope (m), y-intercept (b) when indicated and then graph the equation.

1. $y = \frac{4}{5}x - 1$

$m =$ 4/5

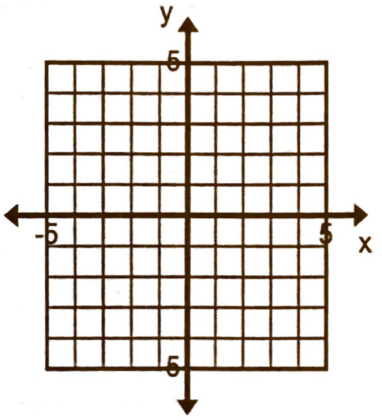
$b =$ -1



2. $y = -\frac{7}{5}x + 4$

$m =$ _____

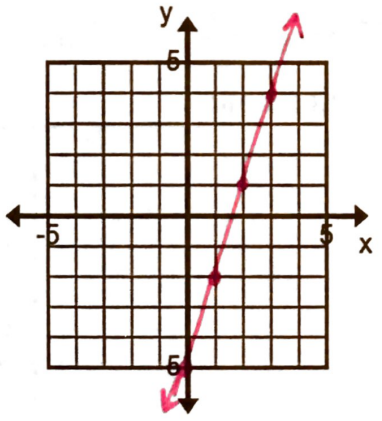
$b =$ _____



3. $y = 3x - 5$

$m =$ 3

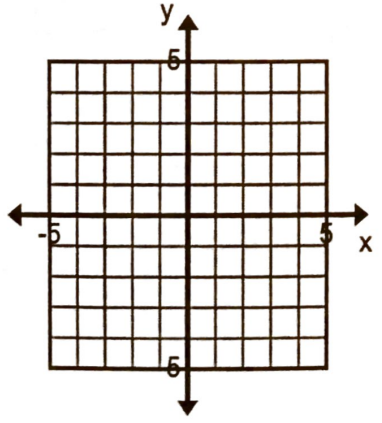
$b =$ -5



4. $y = -2x + 2$

$m =$ _____

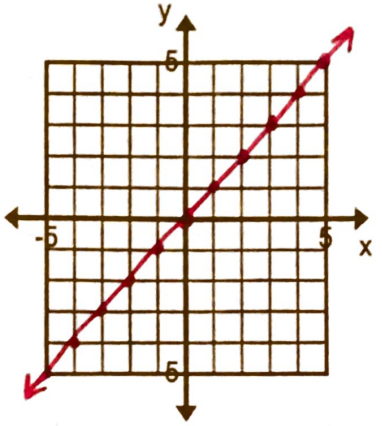
$b =$ _____



5. $y = x$

$m =$ 1

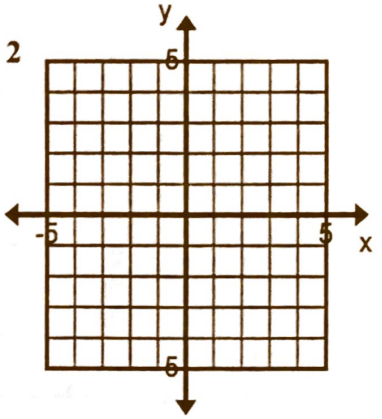
$b =$ 0



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

$m =$ _____

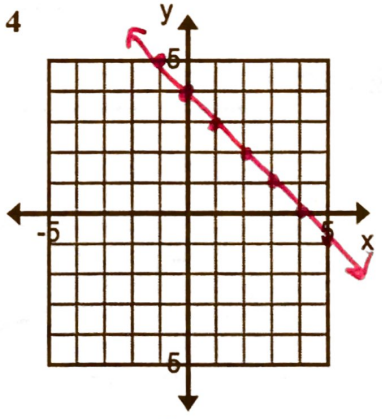
$b =$ _____



7. $y = -x + 4$

$m =$ -1

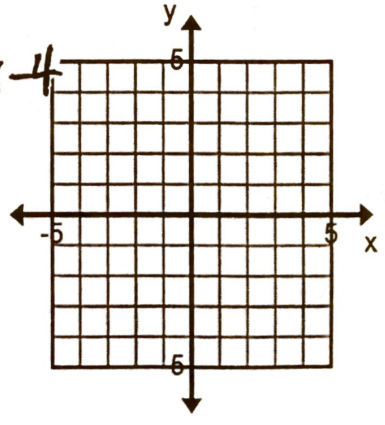
$b =$ 4



8. $y = \frac{2}{3}x - 4$

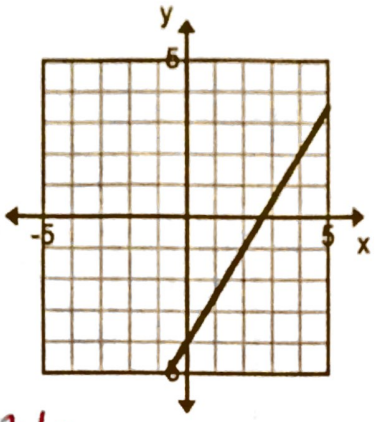
$m =$ _____

$b =$ _____



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

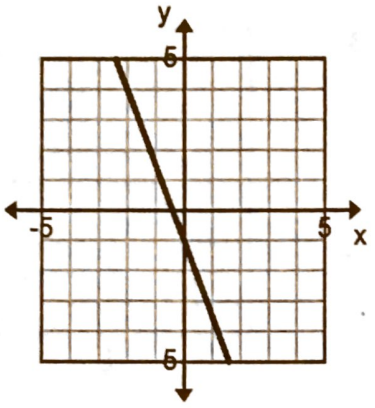
9.



$m =$ 3/2 $b =$ -4

Equation: $y = \frac{3}{2}x - 4$

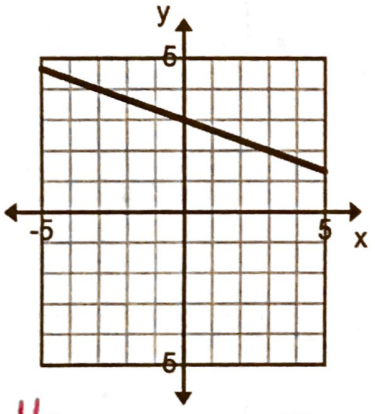
10.



$m =$ _____ $b =$ _____

Equation: _____

11.

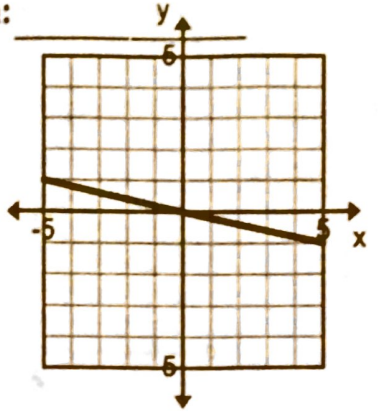


$m =$ -1/3 $b =$ 3

Equation: $y = -\frac{1}{3}x + 3$

Equation: _____

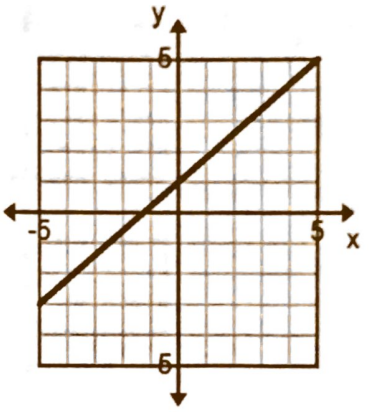
12.



$m =$ _____ $b =$ _____

Equation: _____

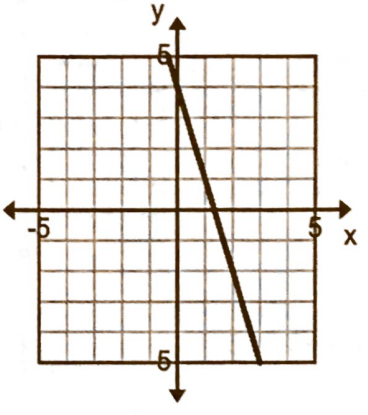
13.



$m =$ 4/5 $b =$ 1

Equation: $y = \frac{4}{5}x + 1$

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: $y = x + 30$

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: $y = \frac{1}{100}x + 5$

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: $y = -3x - 2$

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: $\frac{1}{2}$; y-intercept: **6**

$y = \frac{1}{2}x + 6$

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