

HW 10-1: Write Linear Equations

Write the equation of the line in Slope-Intercept Form given the slope and one point.

1. $m = -\frac{1}{2}$ and $(6, 0)$

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

2. $m = 1$ and $(2, -1)$

~~3. $m = 1$ and $(2, -1)$~~

Same as # 2 ☺

4. $m = 0$ and $(3, -4)$

5. $m = \frac{3}{2}$ and $(-4, 1)$

$$y = \frac{3}{2}x + 7$$

6. $m = -3$ and $(0, 0)$

7. $m = 3$ and $(4, 5)$

$$y = 3x - 7$$

8. $m = \frac{1}{4}$ and $(1, 1)$

9. $m = 1$ and $(-4, -3)$

$$y = x + 1$$

10. $m = 2$ and $(3, 8)$

Write the equation of the line in Slope-Intercept Form given the slope and one point.

11. $m = -4$ and $(-6, 1)$

$$y = -4x - 23$$

12. $m = 0$ and $(0, 5)$

13. $m = -2$ and $(1, 3)$

$$y = -2x + 5$$

14. $m = \frac{2}{3}$ and $(3, 5)$

15. $m = \frac{3}{4}$ and $(8, -3)$

$$y = \frac{3}{4}x - 9$$

16. $m = -\frac{2}{3}$ and $(-6, 3)$

17. $m = -\frac{1}{2}$ and $(-6, -3)$

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

18. $m = 2$ and $(4, -3)$

19. $m = \frac{4}{3}$ and $(6, -2)$

$$y = \frac{4}{3}x - 10$$

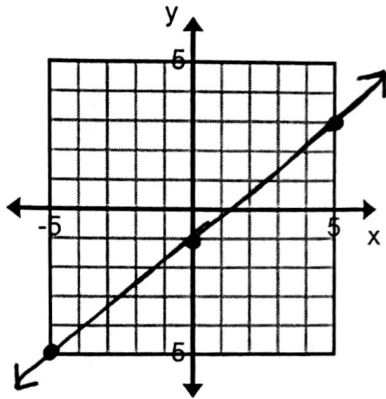
20. $m = 0$ and $(-2, 6)$

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

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

$m = \frac{4}{5}$

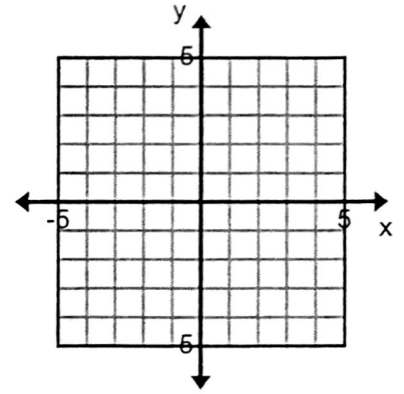
$b = -1$



22. $y = x$

$m =$ _____

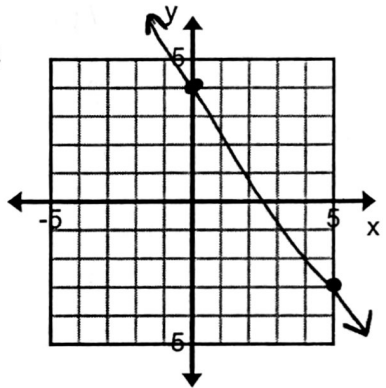
$b =$ _____



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

$m = -\frac{7}{5}$

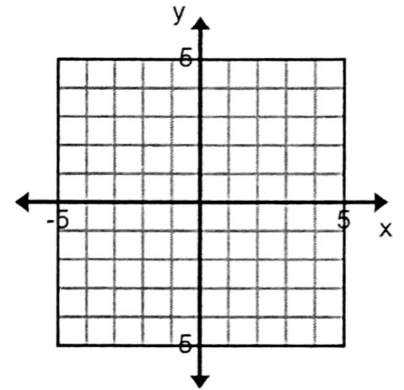
$b = 4$



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

$m =$ _____

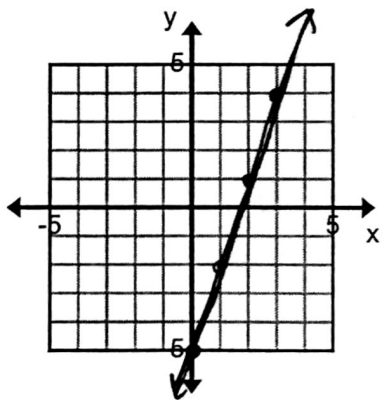
$b =$ _____



25. $y = 3x - 5$

$m = 3$

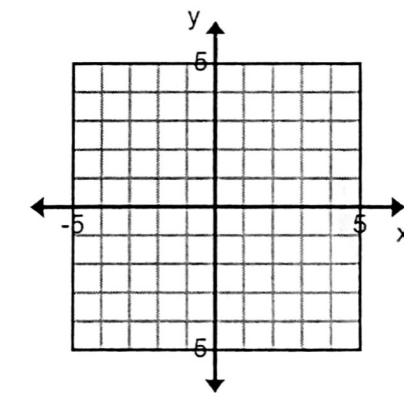
$b = -5$



26. $y = -x + 4$

$m =$ _____

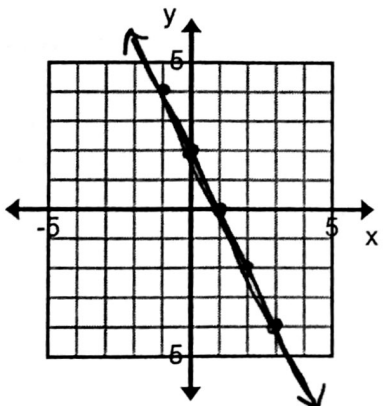
$b =$ _____



27. $y = -2x + 2$

$m = -2$

$b = 2$



28. $y = 4x - 3$

$m =$ _____

$b =$ _____

