Name:_____ Period:_____

HW 8-1: Write Linear Equations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

19. $m = \dfrac{4}{3}$ and $(6, -2)$
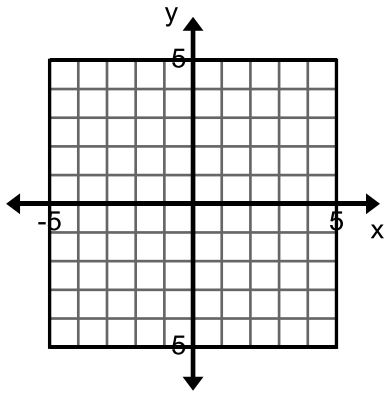
14. $m = \dfrac{2}{3}$ and $(3, 5)$

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

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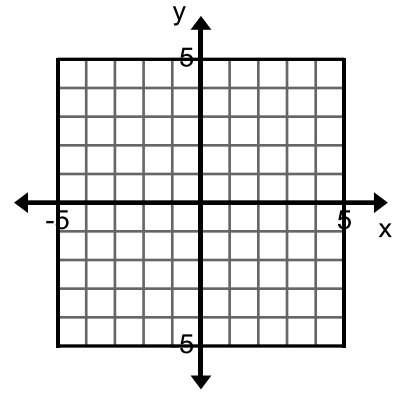
21. $y = \dfrac{4}{5}x - 1$

m = _____

b = _____

25. $y = x$

m = _____

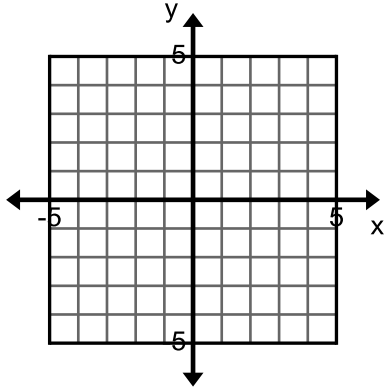*b* = _____
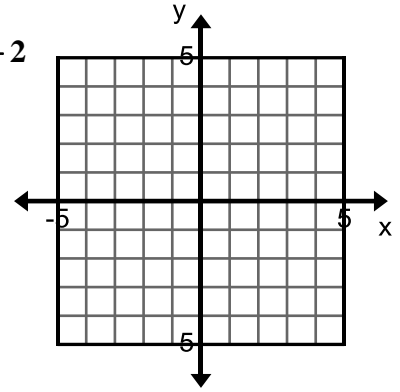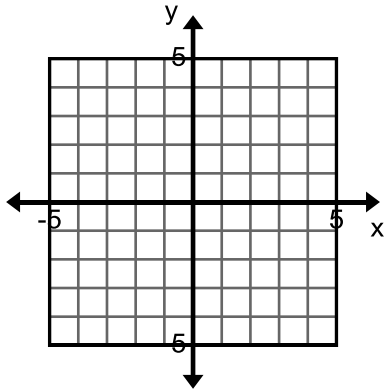
22. $y = -\dfrac{7}{5}x + 4$
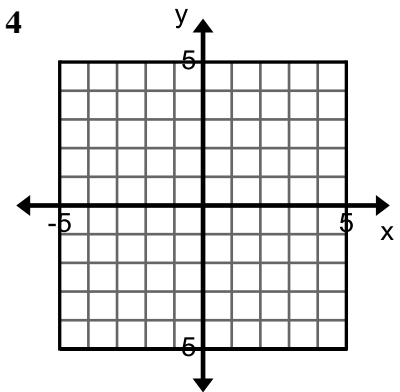
m = _____

b = _____

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

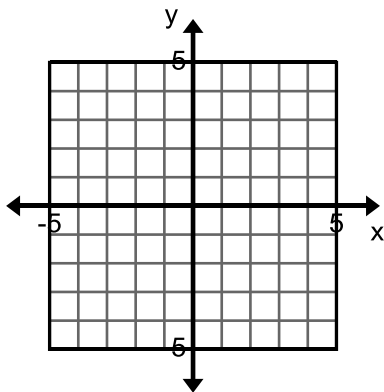23. $y = 3x - 5$

m = _____

b = _____

27. $y = -x + 4$

24. $y = -2x + 2$

m = _____

b = _____

28. $y = 4x - 3$