Name: _____

Unit 2.2 Practice Slope Intercept Form   **Period:** _____

Find the slope and y-intercept of the graph of each equation.

1. $y = 3x - 5$

2. $y = -5x + 13$

3. $y = -x - 1$

4. $y = -11x + 6$

5. $y = -5$

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

7. $y = -6.75x + 8.54$

8. $y = -\frac{2}{3}x - \frac{1}{9}$

9. $y = 2.25$

Write an equation of a line with the given slope m and y-intercept b.
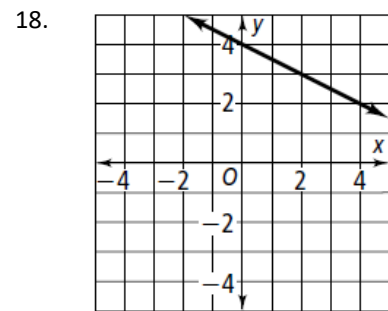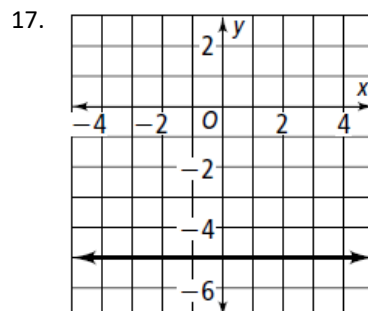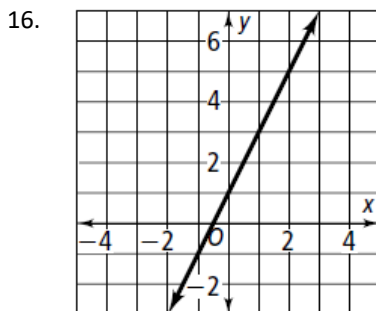
10. $m = -1, \ b = 3$

11. $m = 4, \ b = -2$

12. $m = -5, \ b = -8$

13. $m = 0.25, \ b = 6$

14. $m = 0, \ b = -11$

15. $m = -1, \ b = \frac{3}{8}$

Write an equation in slope-intercept form of each line.

16.

17.

18.

Write an equation of a line with the given points on the line.

19. $(3, 5) \ and \ (0, 4)$

20. $(2, 6) \ and \ (-4, -2)$

21. $(-1, 3) \ and \ (-3, 1)$

22. $(-7, 5) \ and \ (3, 0)$

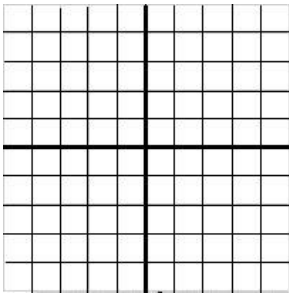23. $(10, 2) \ and \ (-2, -2)$

24. $(0, -1) \ and \ (5, 6)$

25. $(3, 2) \ and \ (-1, 6)$

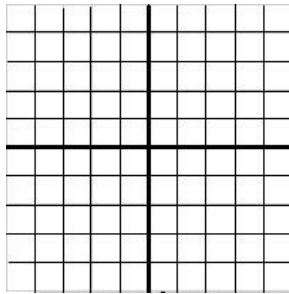26. $(-4, -3) \ and \ (3, 4)$
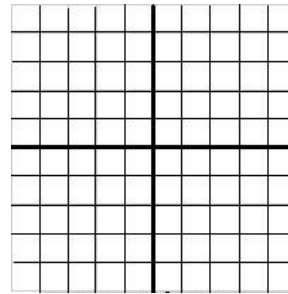
27. $(2, 8) \ and \ (-3, 6)$

Graph each equation.
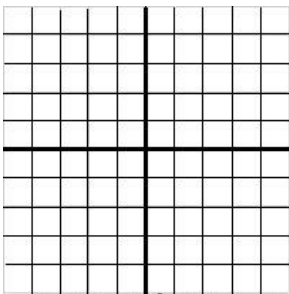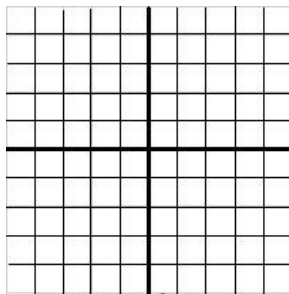
28. $y = x + 3$

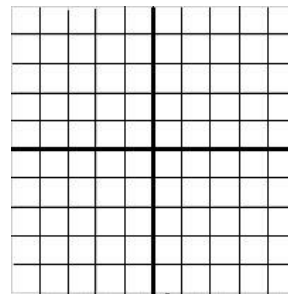29. $y = 4x - 1$

30. $y = -\dfrac{2}{3}x + 4$

31. $y = \dfrac{4}{3}x - 2$

32. $y = -0.5x + 1$

33. $y = -\dfrac{5}{2}x - 4$

34. Hudson is already 40 miles away from home on his drive back to college. He is driving 65 mi/h.
Write an equation that models the total distance d travelled after h hours.
What is the graph of the equation?

35. When Phil started his new job, he owed the company $65 for his uniforms. He is earning $13 per hour. The cost of his uniforms is withheld from his earnings.
Write an equation that models the total money he has m after h hours of work.
What is the graph of the equation?

Find the slope and the y-intercept of the graph of each equation.

36. $y + 4 = -6x$

37. $y + \dfrac{1}{2}x = -4$

38. $3y - 12x + 6 = 0$

39. $y - 5 = \dfrac{1}{3}(x - 9)$

40. $y - \dfrac{2}{5}x = 0$

41. $2y + 6a - 4x = 0$