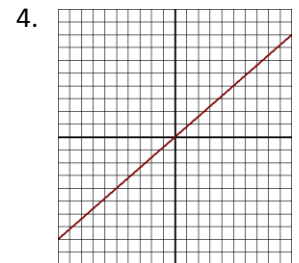
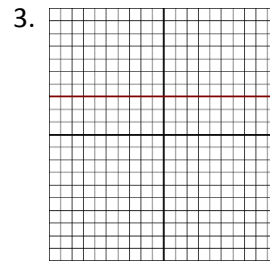
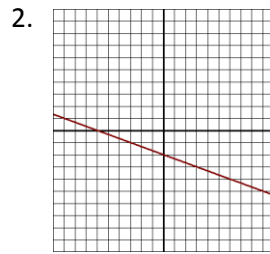
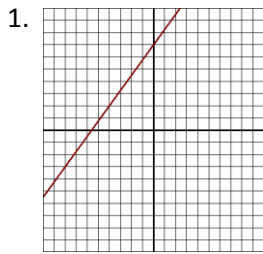


Worksheet 1.3B

Write an equation in slope-intercept form for each graph.



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

5. $y = 2x - 5$

6. $2y = 4x + 6$

7. $3x + 2y = 10$

8. $y = cx + d$

Write an equation in slope-intercept form that satisfies each condition.

9. $m = -7, b = -3$

10. *slope = 0.5, passes through (6,4)*

11. *slope = 4, passes through origin*

12. *passes through (-2,5) and (3,1)*

13. $m = \frac{2}{3}$, passes through (4,6)

14. x-intercept = -4, y-intercept = 4

15. $m = \frac{1}{3}$ and passes through (-2,0)

16. *passes through (-2, -3) and (0,0)*

Use a graphing calculator to find an equation of the line.

17.

x	y
5	27
9	49
2	17
4	35
12	56
8	41
7	36

18.

x	y
12	125
6	67
14	138
9	98
11	114
15	162
10	103

Solve each system of equations by using the SUBSTITUTION method.

19. $2x + 3y = 7$

$$5x + y = -2$$

20. $3x - 2y = 16$

$$x + 4y = -18$$

Solve each system of equations by using the ELIMINATION method.

21. $4x - 2y = 4$

$$3x + 5y = 29$$

22. $2x - 3y = 13$

$$-4x + 6y = 9$$

In the system of equations below, k is a constant. For what value of k will there be infinitely many solutions (x,y) to the system of equations.

23. $3x + 4y = 12$

$$9x + ky = 36$$