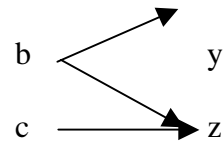
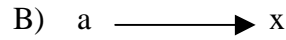
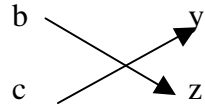
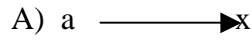


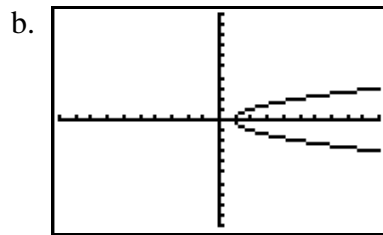
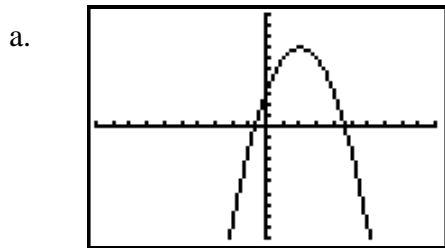
1. Is the following correspondence a function?



2. Find $f(-2)$ when $f(x) = -x + 5$.

3. Find $f(2)$ when $f(x) = x^2 - 5x + 5$.

4. Determine whether the graph is the graph of a function.



5. Complete the chart for $y = \frac{2}{3}x - 4$

x	y
3	
-3	
0	

6. Complete the chart for $y = \frac{1}{2}x + 9$

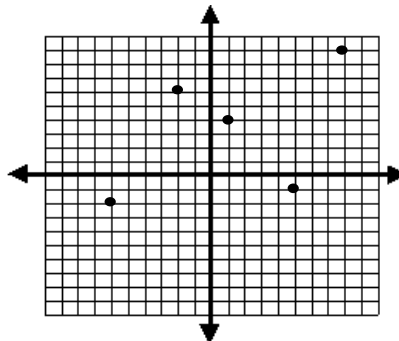
x	y
-4	
2	
0	

7. Find the slope and y intercept for $y = \frac{2}{3}x - 4$

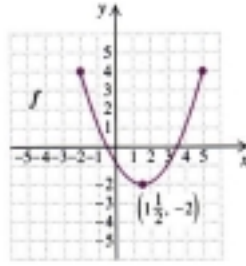
8. Find the slope and y intercept for $2x + 5y = 35$

9. Give the x and y intercepts for $5x + 7y = 13$

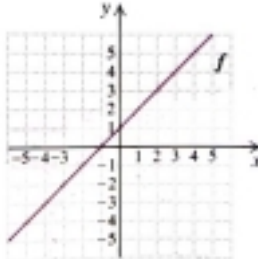
10. a. Find the domain.
 b. Find the range
 c. Find $f(5)$
 d. Find $f(-2)$
 e. Find $f(1)$



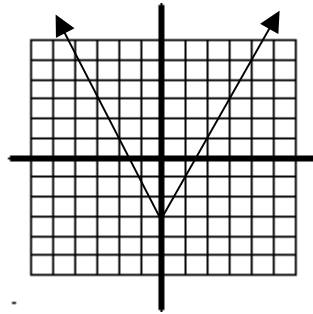
11. a. Find the domain
 b. Find the range
 c. Find $f(5)$
 d. Find $f(-1)$
 e. Find $f(0)$



12. a. Find the domain
 b. Find the range
 c. Find $f(5)$
 d. Find $f(-1)$
 e. Find $f(0)$



13. a. Find the domain
 b. Find the range
 c. Find $f(3)$
 d. Find $f(-3)$
 e. Find $f(0)$



14-18 Find the domain:

14. $g(x) = \frac{4}{x+5}$ 15. $h(x) = 3x^2 - 5x + 1$ 16. $f(x) = |x+4|$

17. $y = -4x+1$ 18. $y = \frac{x-3}{4x-2}$

19. Find the slope of the line passing through (3,2) and (-4,7)

20. Find the slope of the line passing through (3,2) and (3,-7)

21. Find the coordinates of the x and y intercepts for the equation: $8x - 2y = 4$

22. Sketch the graph of $2x = 10$

23. Sketch the graph of $9x - y = 0$

24. Sketch the graph of: $9y - 3x = 36$

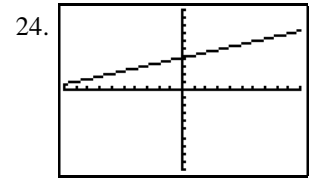
25. Write the equation of the line that goes through the point (-7,2) with an undefined slope.

26. Write the equation of a horizontal line that goes through the point (9,-9).
27. Find the slope and the y-intercept of the line $-4x + 5y = 5$.
28. Sketch the graph of the line $y = \frac{1}{3}x + 4$ 29. Sketch the graph of the line $y = -\frac{1}{5}x + 2$
30. Find the slope and the y-intercept of the line $x + 4y = 20$.
31. Write the equation in slope -intercept form of a line with slope $m = \frac{2}{5}$ passing through the point (5,1).
32. Find a linear function whose graph has slope $m = -\frac{5}{3}$ and y-intercept (0,9).
33. Write the equation in slope-intercept form of a line having a slope of 2 and containing the point (5,-9).
34. Find an equation of the line in point-slope form having a slope $m = \frac{2}{7}$ and containing the point (2,-4)
35. Write as a linear function the equation of a line passing through (5,1) and (-1,7).
36. Persons taking a 30-hour review course to prepare for a standardized exam average a score of 620 on the exam. Persons taking a 70-hour review course average a score of 740. Find the linear function $S(t)$ which expresses score as a function of time.
37. Decide if the pair of lines is parallel, perpendicular, or neither.
 $3x - 2y = -9$ $2x + 3y = -6$
38. Write the equation in slope -intercept form of a line passing through (9, -8), parallel to $y = -\frac{4}{9}x - 3$.
39. Write an equation of the line that goes through (3,-8) and is perpendicular to $y = \frac{3}{5}x - 12$.
40. Write an equation of the line that goes through the points (2,4) and (2,7).
41. Find the domain of $f(x) = x - 6$. 42. Find the domain of $f(x) = \frac{7}{x-12}$.

Answers:

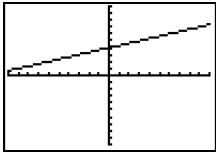
- 1) a. yes b. no 2) 7 3) -1 4) a. yes b. no. 5) -2, -6, -4 6) 7, 10, 9 7) 2/3 and (0,-4)
 8) -2/5 and (0, 7) 9) (13/5, 0) and (0, 13/7) 10) a. {-6, -2, 1, 5, 8} b. {-2, -1, 4, 6, 9}
 c. -1 d. 6 e. 4 11) a. $\{x|-2 \leq x \leq 5\}$, b. $\{y|-2 \leq y \leq 4\}$, c. 4 d. 1 e. -1 12) a. all real numbers, b. all real numbers c. 6 d. 0 e. 1 13) a. all real numbers, b. $\{y|y \geq -3\}$, c. 3
 d. 3 e. -3, 14) $x \neq -5$ 15) \mathcal{R} 16) \mathcal{R} 17) \mathcal{R} 18) $x \neq \frac{1}{2}$ 19) -5/7 20) undefined

- 21) $(\frac{1}{2}, 0)$ and $(0, -2)$ 22) Vertical line through $(5, 0)$ 23.

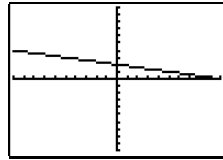


- 25) $x = -7$ 26) $y = -9$ 27) Slope = $\frac{4}{5}$; y-intercept $(0, 1)$

28)



29)



- 30) Slope = $-\frac{1}{4}$; y-intercept $(0, 5)$

31) $y = \frac{2}{5}x - 1$

- 32) $f(x) = -\frac{5}{3}x + 9$ 33) $y = 2x - 19$ 34) $y + 4 = \frac{2}{7}(x - 2)$ 35) $f(x) = -x + 6$ 36) $S(t) = 3t + 530$

- 37) Perpendicular 38) $y = -\frac{4}{9}x - 4$ 39) $y = -\frac{5}{3}x - 3$ 40) $x = 2$ 41) all real numbers

42) $\{x | x \neq 12\}$

