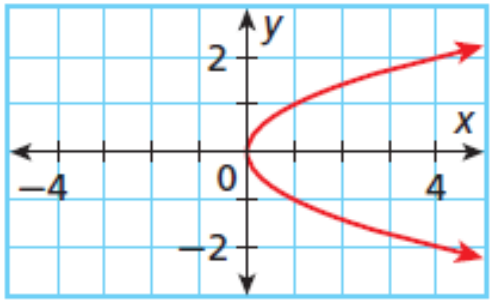
Assignment

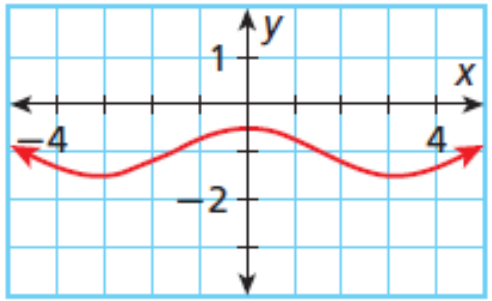
Page 48 #13 – 15, 22 – 27, 44 – 46, and 58 – 61

Use the vertical-line test to determine whether each relation is a function. If not, identify two points a vertical line would pass through.

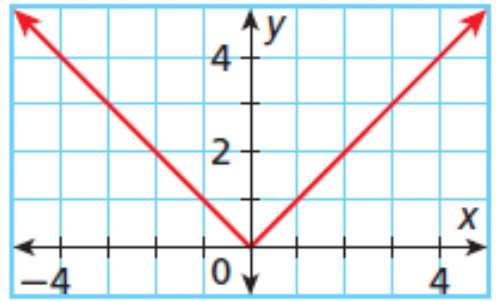
13.



14.

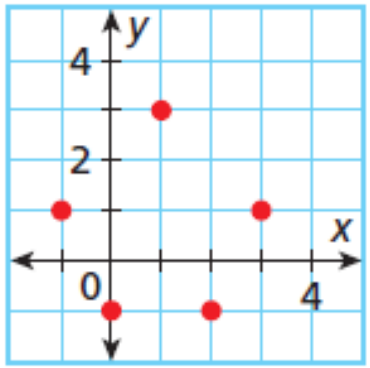


15.

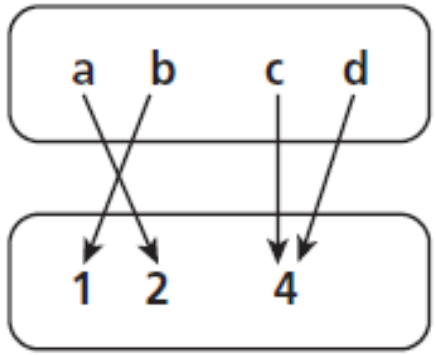


Give the domain and range of each relation. Then explain whether the relation is a function.

22.



23.



24. $\{(7, 1), (7, 2), (7, 3), (7, 4), (7, 6)\}$

25. $\{(9, 3), (7, 3), (5, 3), (3, 3), (1, 3)\}$

26.

x	3	0	0	−1	−3
y	−4	−3	−1	−2	0

27.

x	7	6	5	4	3
y	−1	2	−1	2	3

Simplify each expression. Assume all variables are nonzero. *(Lesson 1-5)*

58. $(-3y^4)^3$

59. $\dfrac{(10w^2)^2}{5w^5}$

60. $(4c^6d^2)^2$

61. $\left(\dfrac{x^3}{z}\right)^7$