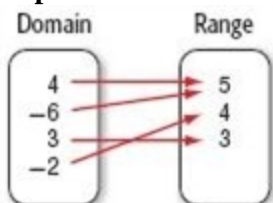
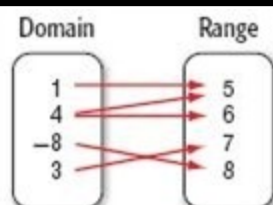


1-7 Functions

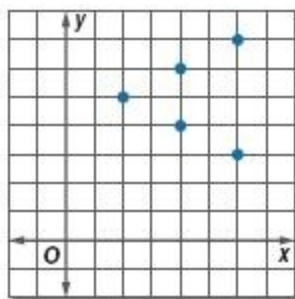
Determine whether each relation is a function.
Explain.



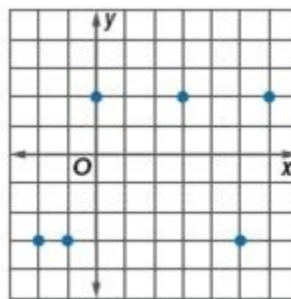
20.



21.



24.



25.

Determine whether each relation is a function.

29. $y = -8$

30. $x = 15$

If $f(x) = -2x - 3$ and $g(x) = x^2 + 5x$, find each value.

36. $g(-3)$

38. $f(0) - 7$

1-7 Functions

40. $g(-6m)$



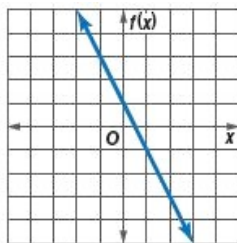
42. $f(r + 2)$



44. $3[g(n)]$



54. **ERROR ANALYSIS** Corazon thinks $f(x)$ and $g(x)$ are representations of the same function. Maggie disagrees. Who is correct? Explain your reasoning.



x	$g(x)$
-1	1
0	-1
1	-3
2	-5
3	-7



The equation for $f(x)$ is: $f(x) = -2x + 1$.

For the table, we can see that as x increases by 1, $g(x)$ decreases by 2, which means the slope of $g(x)$ is -2 . But the y -intercept for $g(x)$ is $(0, -1)$, giving $g(x) = -2x - 1$.

The graph and table are representative of different functions.

1-7 Functions

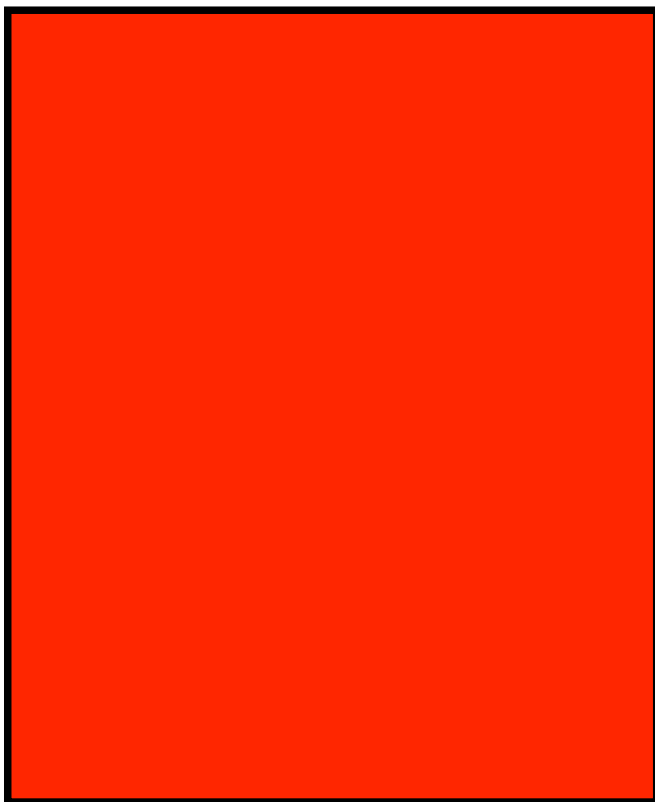
58. For the function $y = 15x - 4$, assume the domain is only values of x from 0 to 5. What is the range of the function?

F All values from 15 to 20.

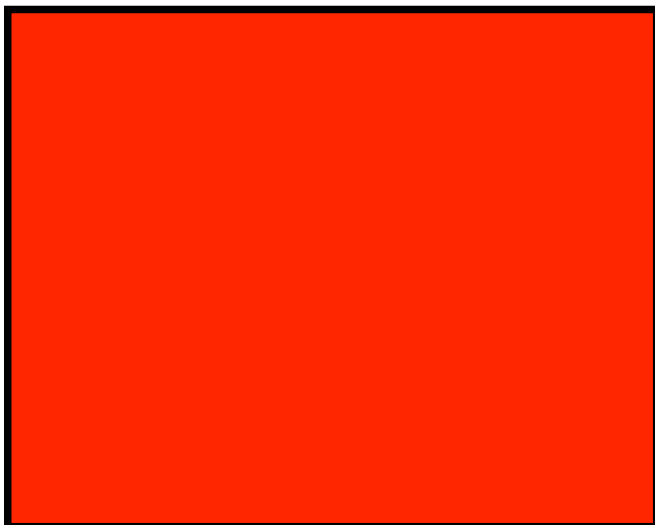
G All values from $\frac{4}{15}$ to $\frac{3}{15}$.

H All values from -4 to 71.

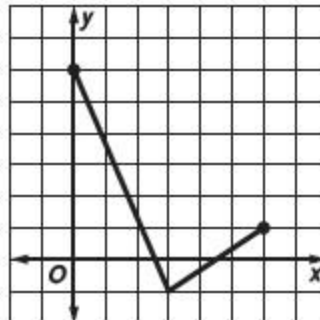
J Two values from -4 to 71.



59. Which statement best describes how to determine when a graph represents a function?



60. Which of the following best describes the relation shown in the graph?



F Domain: $0 \leq x \leq 6$; Range: $-1 \leq y \leq 6$; the relation is a function

G Domain: $0 \leq x \leq 6$; Range: $-1 \leq y \leq 6$; the relation is a not function

H Domain: $-1 \leq x \leq 6$; Range: $0 \leq y \leq 6$; the relation is a function

J Domain: $-1 \leq x \leq 6$; Range: $0 \leq y \leq 6$; the relation is a function

