

Name: _____

Class: _____

M8-U4: HW #2 – Functions: Rules, Tables, Graphs, & Mapping

Date: _____

Find the domain and range for the following relation.

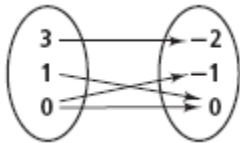
1. $\{(-3, -7), (-1, -3), (0, -1), (2, 3), (4, 7)\}$

Determine whether each of the following relations is a function.

2. $\{(-4, -3), (-2, -2), (0, -1), (1, -\frac{1}{2})\}$

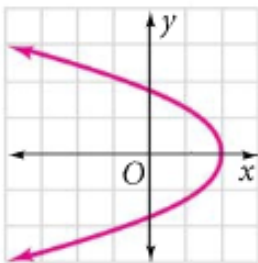
3. $\{(0, 0), (1, 1), (4, 2), (1, -1)\}$

4.

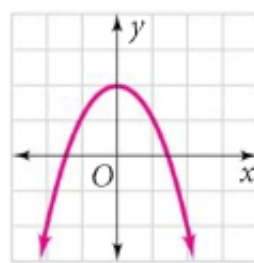


Determine whether each graph is the graph of a function.

5.



6.



Find the range of each function for the given domain.

7. $y = -3x + 1; \{-2, -1, 0\}$

8. $y = -x^2; \{-3, -1, 1\}$

Word Problem

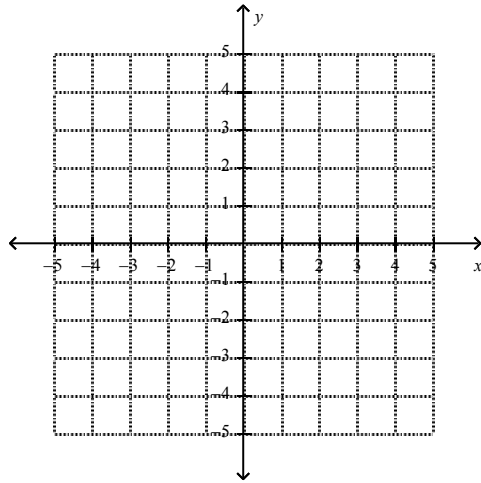
9. A store bought a case of disposable cameras for \$300. The store's profit p on the cameras is a function of the number c of cameras sold. Find the range of the function $p = 6c - 300$, when the domain is $\{0, 15, 50, 62\}$.

In this situation what do the domain and range represent?

Model each rule with a table of values and a graph.

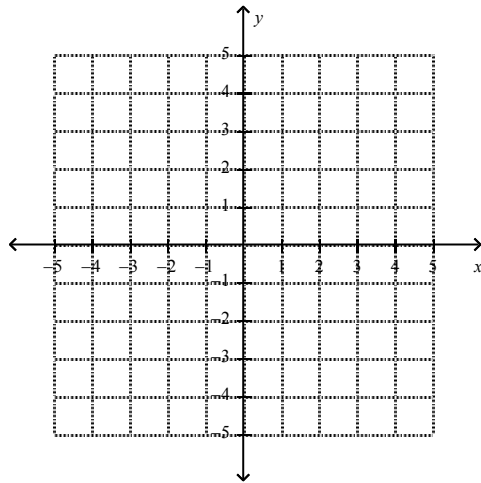
10. $y = \frac{3}{2}x - 2$

x	y



11. $y = |-2x|$

x	y



12. Is the ordered pair $(8, 4.5)$ a solution to the function $y = \frac{3}{4}x - \frac{1}{2}$?