

**Give the domain and range of each relation. Is the relation a function?**

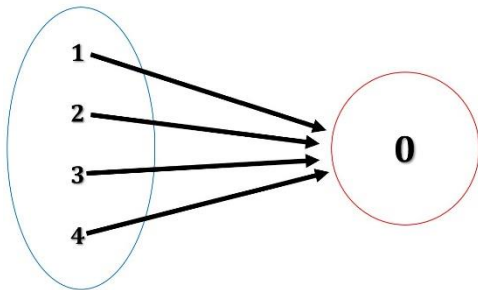
1.)  $\{(2, 4), (1, 3), (0, 2), (1, 1)\}$

3.)  $\{(a, a + 1), (a, a - 1)\}$

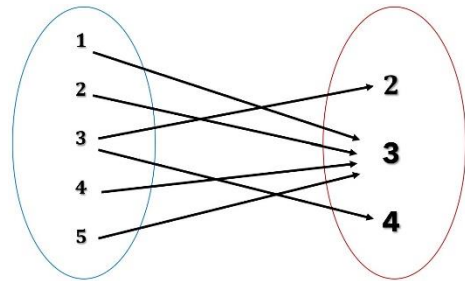
2.)  $\{(4, 1), (3, 2), (2, 3), (1, 4)\}$

**List the ordered pairs in the relation pictured in each diagram. Is the relation a function?**

4.)

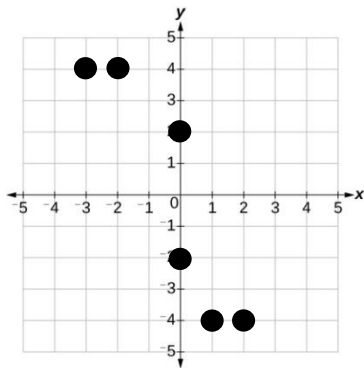


5.)

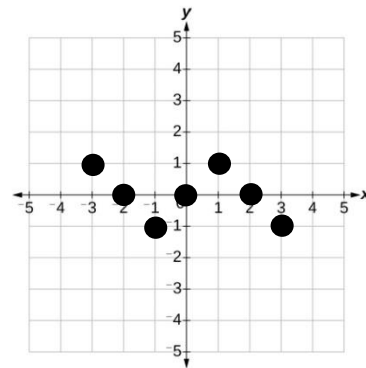


**List the ordered pairs in the relation pictured in each graph. Is the relation a function?**

6.)

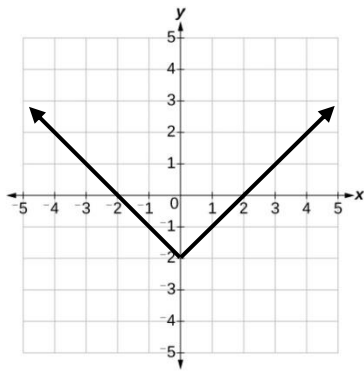


7.)

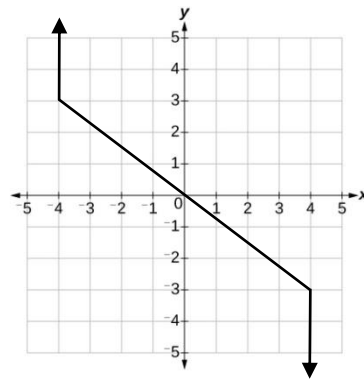


**Give the domain and range of each relation graphed below. Is the relation a function?**

8.)

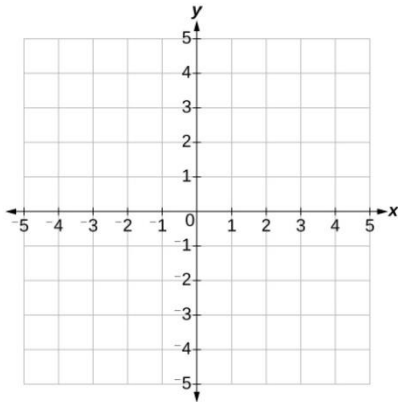


9.)

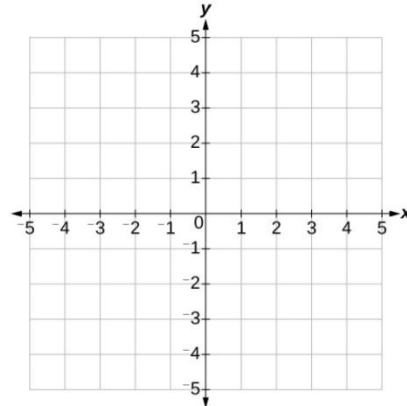


**Graph each relation. Then tell whether it is a function. If it is a function, draw a vertical line that intersects the graph more than once.**

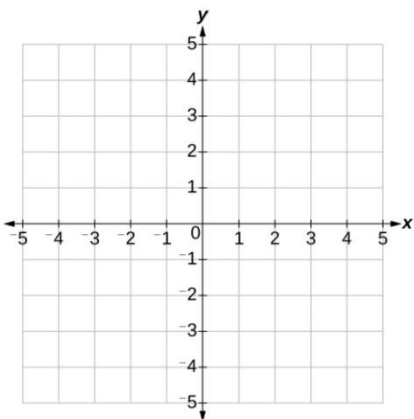
10.)  $\{(-1, 2), (0, 1), (1, 2)\}$



12.)  $\{(1, 2), (2, -1), (-1, 1), (1, -1), (0, 1)\}$



11.)  $\{(2, 1), (1, -1), (0, 2), (2, 0)\}$



**True or False?**

13.) All relations are functions.

14.) All functions are relations.