

NAME _____

DATE _____

Module 9 Using Functions
Lesson 1 Defining Relations and Functions

additional practice

Find the domain and range of each relation.

1. $W = \{(0, 2), (0, 1), (4, 3), (5, 2), (2, 0)\}$

2. $M = \{(-1, 1), (-6, 3), (4, 5), (0, 5), (-2, 3)\}$

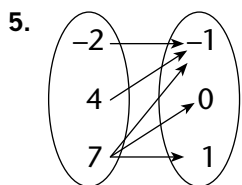
3.

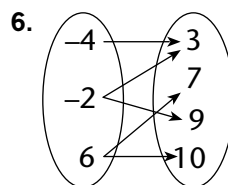
x	y
0	1
0	2
0	5
0	8

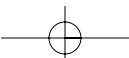
4.

x	y
3	-1
-1	3
3	0
0	-1

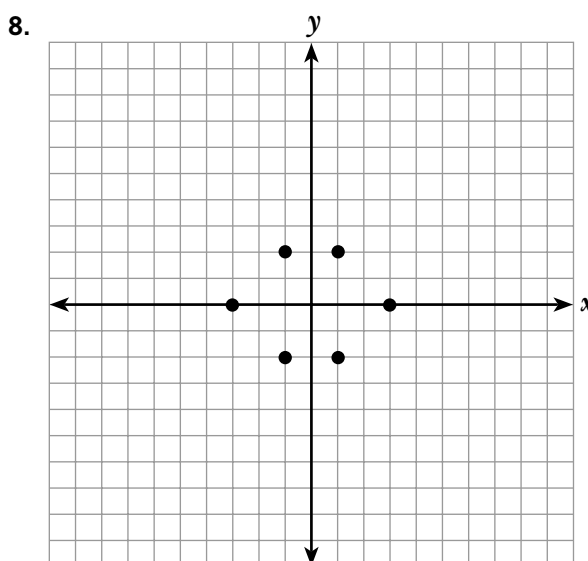
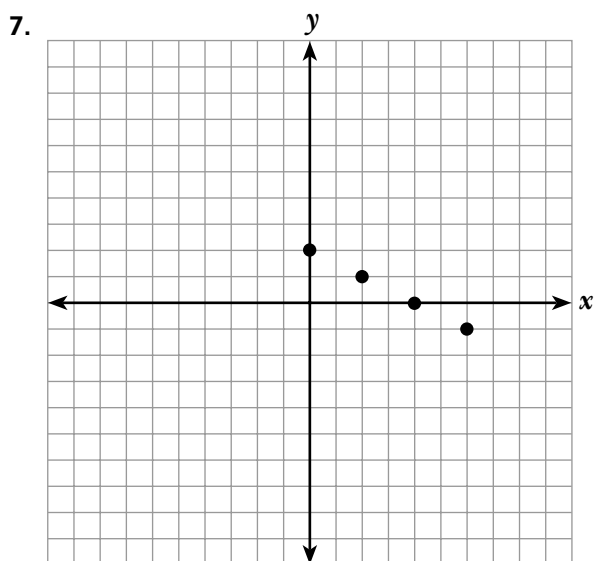
Name the ordered pairs shown by each mapping diagram. Then, name the domain and range of each relation.



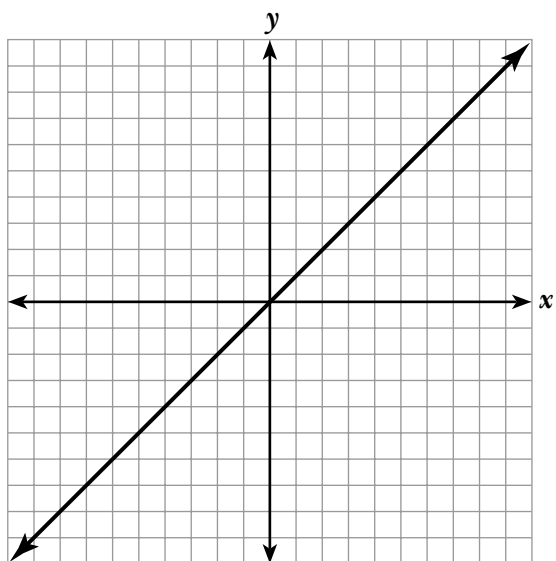




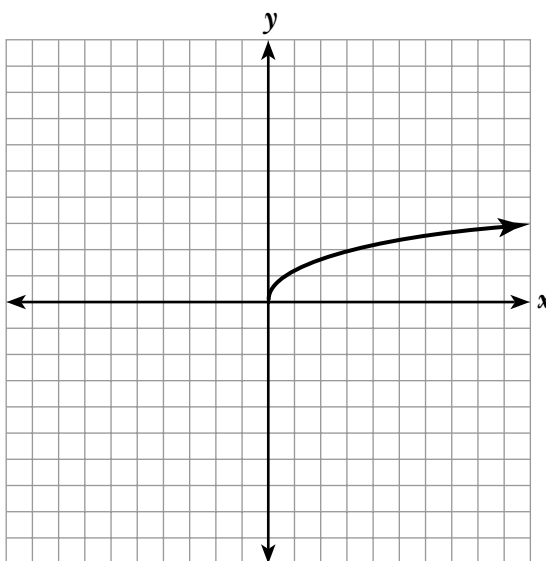
Find the domain and range of each relation.



9. $y = x$



10. $y = \sqrt{x}$

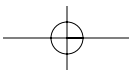
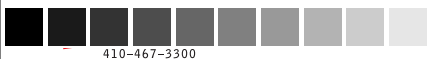


Determine whether each relation is a function. If the relation is not a function, justify your answer.

11. $K = \{(3, 1), (0, 5), (3, -5), (1, -1), (5, 1)\}$

12. $B = \{(-3, 0), (-2, 0), (-4, -9), (-10, 0)\}$

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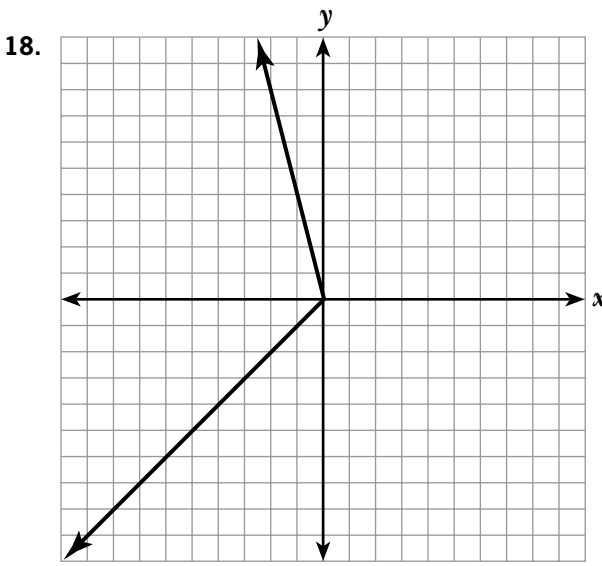
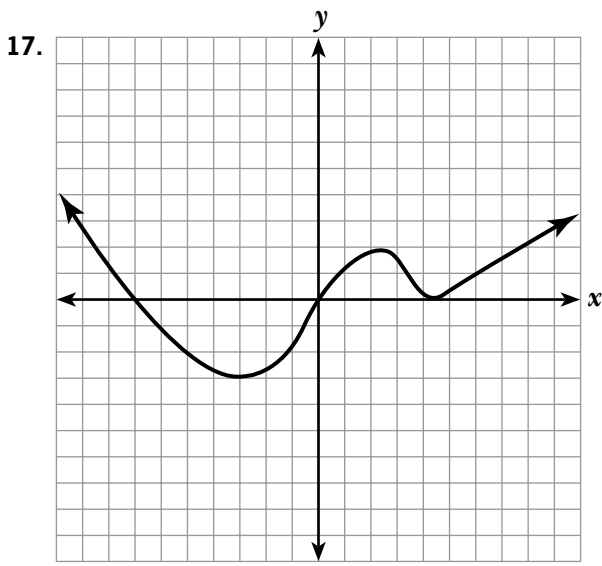
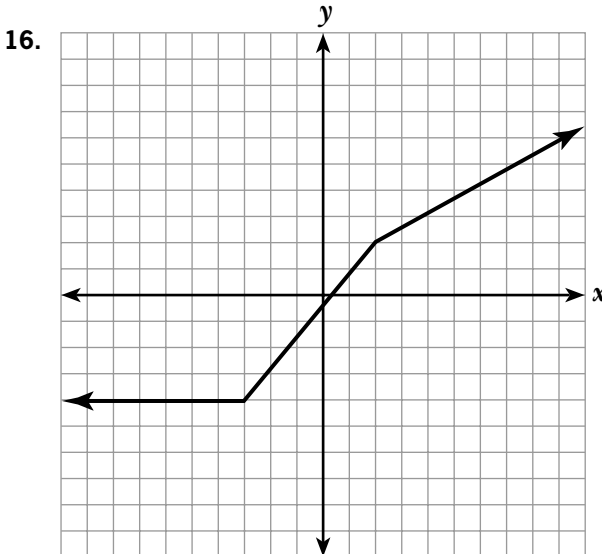
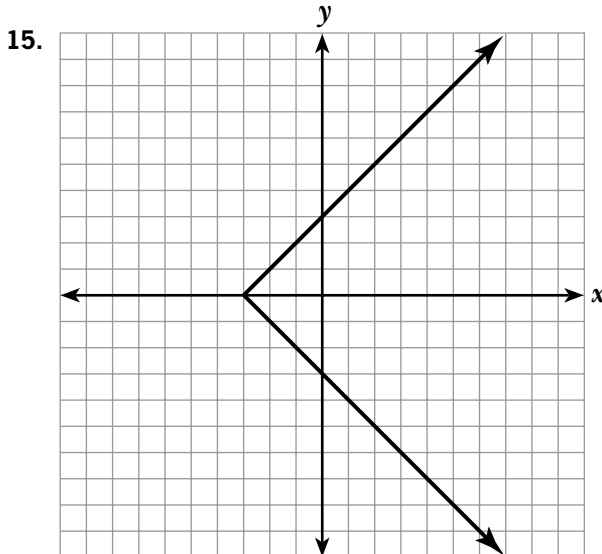
13.

x	y
0	1
0	2
0	5
0	8

14.

x	y
3	-1
-1	3
3	0
0	-1

Use the vertical line test to determine whether each graph represents a function.



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