LESSON 8.1

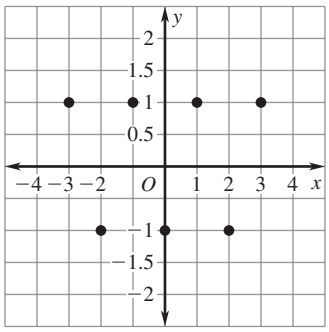
Name _____ Date _____

Challenge Practice

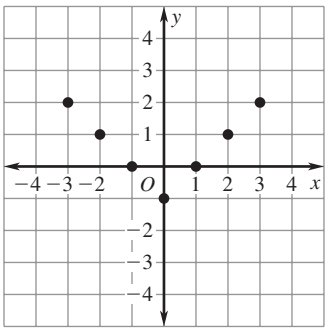
For use with pages 385–390

Identify the domain and range of the relation. Then tell whether the relation is a function.

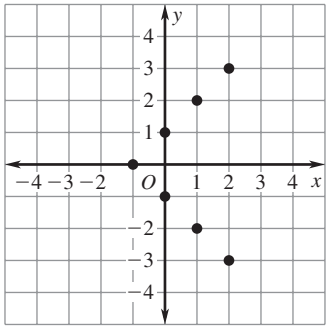
1.



2.



3.



Represent the relation as a graph and as a mapping diagram. Then tell whether the relation is a function. Explain your reasoning.

4. $(-16, 8), (-8, 16), (16, 4), (-4, 2), (2, -4), (4, -2)$

5. $(-4, 6.25), (3, -2.5), (0, -0.75), (-3, -2.5), (4, 6.25)$

In Exercises 6–8, determine whether the relation described could be a function. Explain your reasoning.

6. The amount of rainfall in your town is recorded every day for a month. A relation is given by the ordered pairs (inches of rain, day of month).

7. You record the number of pages you write in your journal each day for a month. A relation is given by the ordered pairs (day of month, pages).

8. You record how many miles you run each day and the amount of time it takes you to run that distance. A relation is given by the ordered pairs (distance, time).

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