NAME Module 9 **Using Functions** tiona Lesson 1 **Defining Relations and Functions** ractice Find the domain and range of each relation. **1.** $W = \{(0, 2), (0, 1), (4, 3), (5, 2), (2, 0)\}$ **2.** $M = \{(-1, 1), (-6, 3), (4, 5), (0, 5), (-2, 3)\}$ Domain = $\{0, 2, 4, 5\}$ Domain = $\{-6, -2, -1, 0, 4\}$ Range = $\{0, 1, 2, 3\}$ Range = $\{1, 3, 5\}$ 3. 4. Х Х У У 1 3 -1 0 2 -1 3 0 Domain = $\{0\}$ Domain = $\{-1, 0, 3\}$

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

Range = $\{1, 2, 5, 8\}$



5

8

0

0



3

0

0

-1

(-4, 3), (-2, 3), (-2, 9), (6, 7), (6, 10)

Range = $\{-1, 0, 3\}$

Domain = $\{-4, -2, 6\}$

Range = {3, 7, 9, 10}

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Find the domain and range of each relation.

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

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

mapped to 2 different y-coordinates.

K is not a function. The x-coordinate 3 is

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

B is a function.

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