Name: _____

Is It a Function

Decide whether each relation is a function. A function gives each input exactly one output.

1. Is this relation a function? {(2, 5), (7, 2), (−4, −4), (2, −1)}

   Answer: _____

2. Is this relation a function? {(0, 1), (−1, 4), (4, 0), (4, −1)}

   Answer: _____

3. Is this relation a function? {(7, −3), (−4, 9), (5, 8), (−2, 9)}

   Answer: _____

4. Is this relation a function? {(−3, −1), (3, −2), (2, 2), (−3, 1)}

   Answer: _____

5. Is this relation a function? {(−1, −3), (0, −4), (−2, −2), (−1, 4)}

   Answer: _____

6. Is this relation a function? {(1, 9), (−2, 5), (4, −1), (3, 0)}

   Answer: _____

7. Is this relation a function? {(−3, 9), (−4, 1), (3, 4), (3, −3)}

   Answer: _____

8. Is this relation a function? {(−2, −1), (7, −5), (−4, −5), (3, 0)}

   Answer: _____

9. Is this relation a function? {(−3, −5), (6, 0), (5, 1), (1, −1)}

   Answer: _____

10. Is this relation a function? {(1, 5), (3, 7), (−5, 3), (1, 6)}

    Answer: _____

11. Is this relation a function? {(0, 4), (3, 2), (2, 0), (0, −5)}

    Answer: _____

12. Is this relation a function? {(−2, 3), (0, 0), (−4, 5), (6, 6)}

    Answer: _____

Name: **ANSWER KEY**

Is It a Function

Decide whether each relation is a function. A function gives each input exactly one output.

1. Is this relation a function? {(2, 5), (7, 2), (−4, −4), (2, −1)}

   Answer: no (an x repeats)

2. Is this relation a function? {(0, 1), (−1, 4), (4, 0), (4, −1)}

   Answer: no (an x repeats)

3. Is this relation a function? {(7, −3), (−4, 9), (5, 8), (−2, 9)}

   Answer: yes

4. Is this relation a function? {(−3, −1), (3, −2), (2, 2), (−3, 1)}

   Answer: no (an x repeats)

5. Is this relation a function? {(−1, −3), (0, −4), (−2, −2), (−1, 4)}

   Answer: no (an x repeats)

6. Is this relation a function? {(1, 9), (−2, 5), (4, −1), (3, 0)}

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9. Is this relation a function? {(−3, −5), (6, 0), (5, 1), (1, −1)}

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10. Is this relation a function? {(1, 5), (3, 7), (−5, 3), (1, 6)}

    Answer: no (an x repeats)

11. Is this relation a function? {(0, 4), (3, 2), (2, 0), (0, −5)}

    Answer: no (an x repeats)

12. Is this relation a function? {(−2, 3), (0, 0), (−4, 5), (6, 6)}

    Answer: yes