

Student: _____
Date: _____
Time: _____

Instructor: courtney trabue
Course: GMC LSS Mathematics
Book: Martin-Gay: Developmental
Mathematics

Assignment: MAT 097 Introduction to
Functions (10.6)

1. Find the domain and the range of the given relation.

$$\{(6, -5), (0, -2), (8, -3), (-3, 8)\}$$

The domain is $\{\square\}$. (Use a comma to separate answers as needed.)

The range is $\{\square\}$. (Use a comma to separate answers as needed.)

2. Find the domain and the range of the relation.

$$\{(6, -9), (9, -9), (-9, -9)\}$$

What is the domain of the given relation?

$\{\square\}$ (Use a comma to separate answers as needed.)

What is the range of the given relation?

$\{\square\}$ (Use a comma to separate answers as needed.)

3. Determine if the given relation is also a function.

$$\{(8, 4), (-1, 9), (8, 1), (-3, -2)\}$$

Is the relation a function?

Yes

No

4. Determine if the given relation is also a function.

$$\{(0, 8), (0, 6), (0, 4)\}$$

Is the relation a function?

No

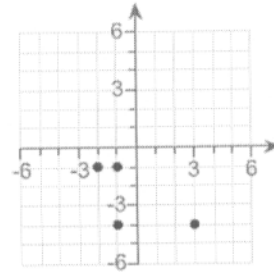
Yes

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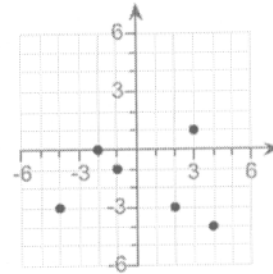
5. Determine whether the graph is the graph of a function.



Is the graph the graph of a function?

- Yes
 No

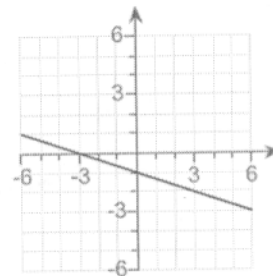
6. Determine whether the graph is the graph of a function.



Is the graph the graph of a function?

- Yes
 No

7. Determine whether the graph is the graph of a function.



Is the graph the graph of a function?

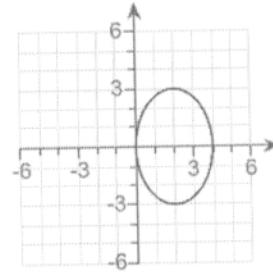
- Yes
 No

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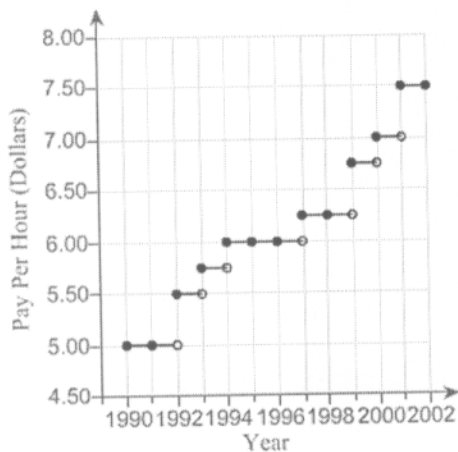
8. Determine whether the graph is the graph of a function.



According to the vertical line test, is the graph the graph of a function?

- Yes
 No

9. The graph shows John's hourly pay at the beginning of each year shown. Use this graph to approximate John's pay at the beginning of 2001.



John's hourly pay at the beginning of 2001 was \$ per hour.

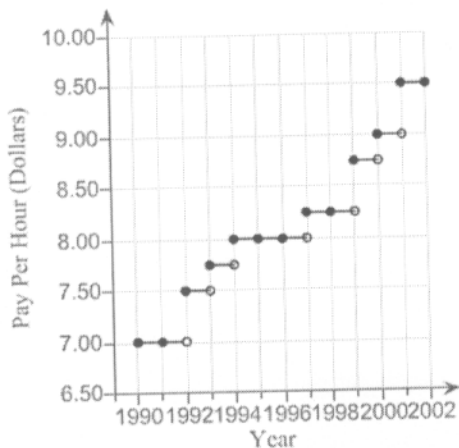
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10.

The graph shows Bill's hourly pay rate at the beginning of each year shown. Approximate the year when Bill's pay rate increased to over \$8.90 per hour.



The year when Bill's hourly pay rate increased to over \$8.90 per hour was .

11.

Given the following function, find $f(-3)$, $f(0)$, and $f(3)$.

$$f(x) = 4x + 3$$

$$f(-3) = \square$$

$$f(0) = \square$$

$$f(3) = \square$$

12.

Given the following function, find $f(-4)$, $f(0)$, and $f(2)$.

$$f(x) = x^2 + 4$$

$$f(-4) = \square$$

$$f(0) = \square$$

$$f(2) = \square$$

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13. Find $f(-3)$, $f(0)$ and $f(3)$ for the following function.

$$f(x) = -3x$$

$$f(-3) = \square$$

$$f(0) = \square$$

$$f(3) = \square$$

-
14. If $f(-8) = -3$, write a corresponding ordered-pair solution.

What is the corresponding ordered-pair?

(Type an ordered pair.)
