

**Unit 6****LESSON 8****Do Now:**

1. Given the relation:  $\{(1, 2), (1, 1), (1, 0), (1, -1)\}$

a. State the domain:

b. State the range:

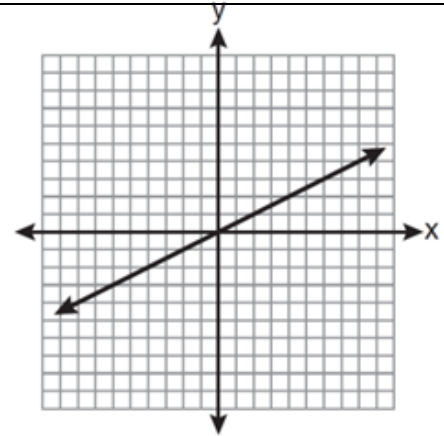
c. Is the relation a function? Explain.

2. Given the graph below:

a. State the domain:

Set Builder:

Interval Notation:



b. State the range:

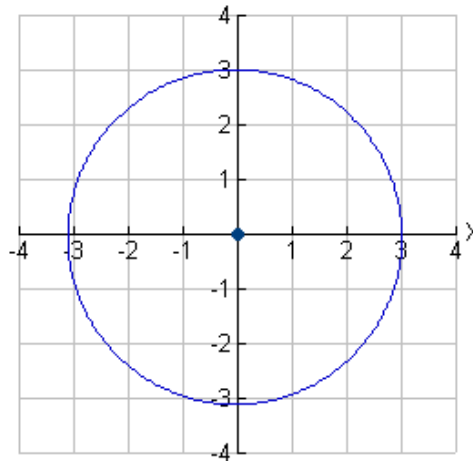
Set Builder:

Interval Notation:

c. Is the graph a function? Explain.

**Aim: Domain & Range (Day 2)**

3. Is the graph a function? Explain.



**Domain:**

Set Builder:

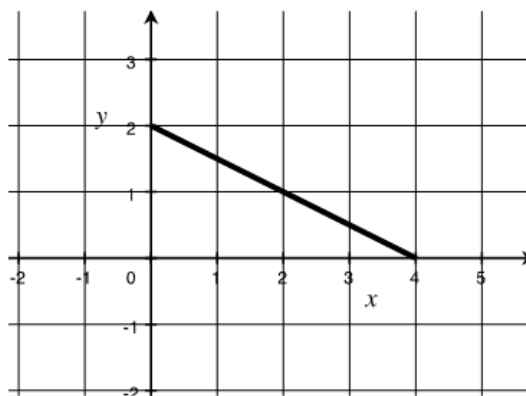
Interval Notation:

**Range:**

Set Builder:

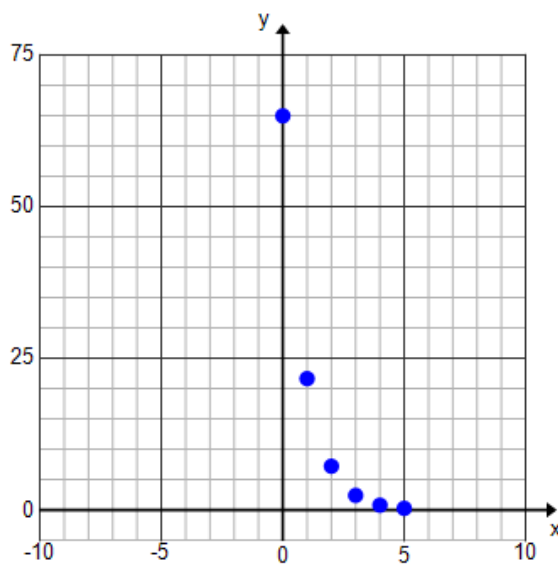
Interval Notation:

4. Is the graph a function? Explain.



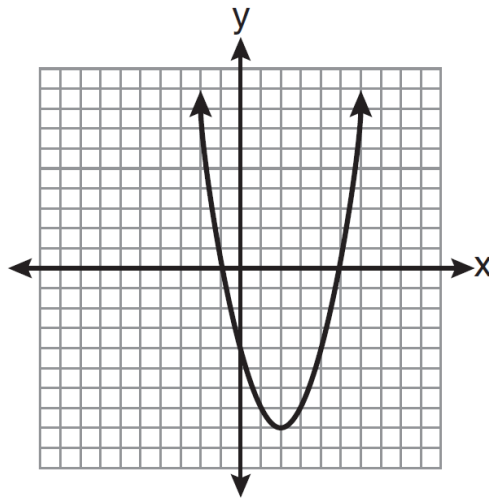
|                                |                               |
|--------------------------------|-------------------------------|
| <b>Domain:</b><br>Set Builder: | <b>Range:</b><br>Set Builder: |
| Interval Notation:             | Interval Notation:            |

5. Is the graph a function? Explain.



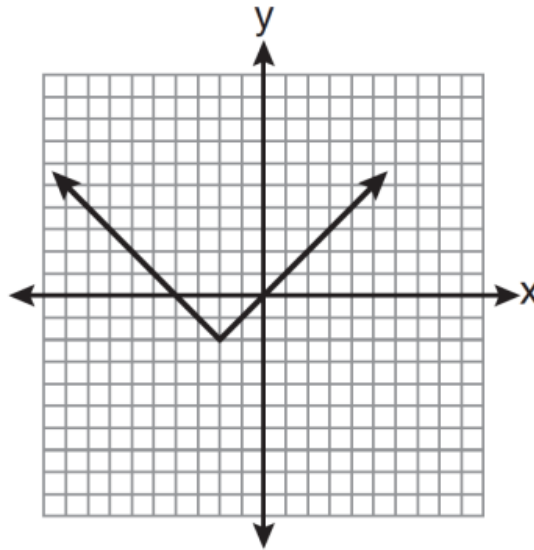
|                |               |
|----------------|---------------|
| <b>Domain:</b> | <b>Range:</b> |
|----------------|---------------|

6. Is the graph a function? Explain.



|   |  |
|---|--|
| <p><b>Domain:</b><br/>Set Builder:</p><br><br><br><br><p>Interval Notation:</p> | <p><b>Range:</b><br/>Set Builder:</p><br><br><br><br><p>Interval Notation:</p> |
|---|--|

7. Is the graph a function? Explain.



|   |  |
|---|--|
| <p><b>Domain:</b><br/>Set Builder:</p><br><br><br><br><p>Interval Notation:</p> | <p><b>Range:</b><br/>Set Builder:</p><br><br><br><br><p>Interval Notation:</p> |
|---|--|

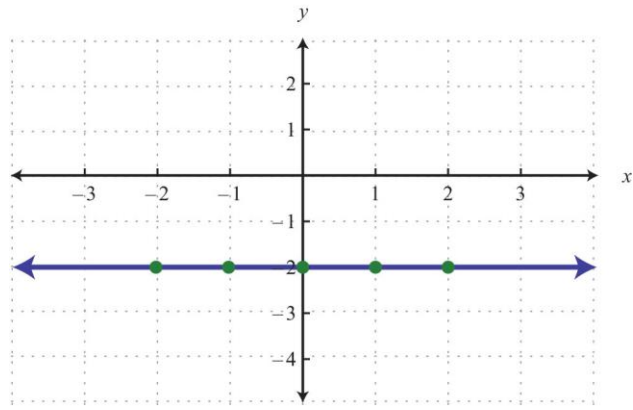
8. What do you notice about the domains for both functions? \_\_\_\_\_

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9. Is the graph a function? Explain.



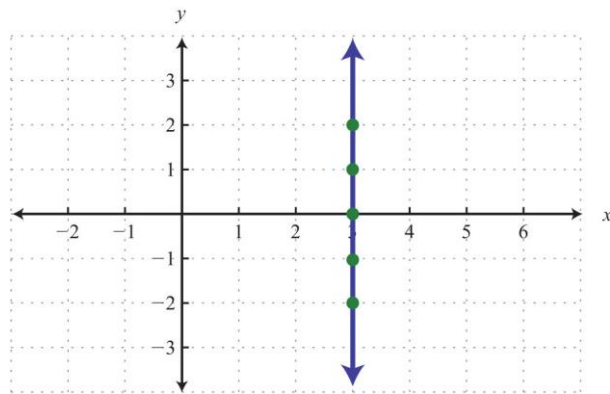
**Domain:**  
Set Builder:

Interval Notation:

**Range:**  
Set Builder:

Interval Notation:

10. Is the graph a function? Explain.



**Domain:**  
Set Builder:

Interval Notation:

**Range:**  
Set Builder:

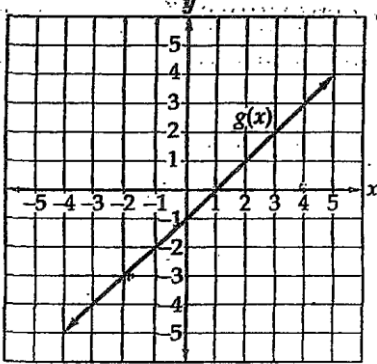
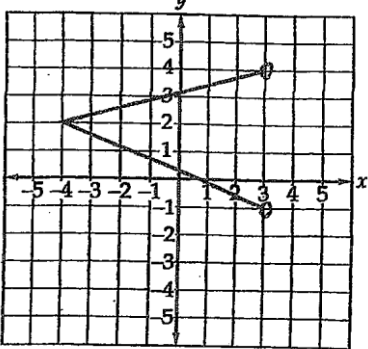
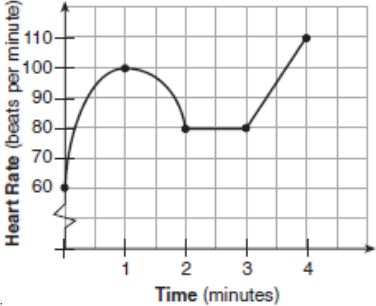
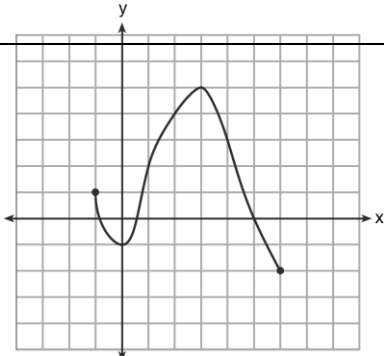
Interval Notation:

**Unit 6**

**LESSON 8**

HW# \_\_\_\_\_

For #1-4, state the domain and range of graph. Write the domain and range in set-builder notation for part a and interval notation for part b.

|  |   |
|--|---|
| <p>1.</p>  <p>Domain:</p> <p>a)</p> <p>b)</p> <p>Range:</p> <p>a)</p> <p>b)</p>   | <p>2.</p>  <p>Domain:</p> <p>a)</p> <p>b)</p> <p>Range:</p> <p>a)</p> <p>b)</p>   |
| <p>3.</p>  <p>Domain:</p> <p>a)</p> <p>b)</p> <p>Range:</p> <p>a)</p> <p>b)</p> | <p>4.</p>  <p>Domain:</p> <p>a)</p> <p>b)</p> <p>Range:</p> <p>a)</p> <p>b)</p> |

5. Identify the domain and range.  
 $\{(3, 5), (4, 6), (5, 5), (6, 6)\}$

Domain:

Range:

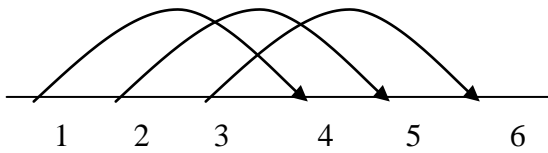
Determine if it is a function. Explain your answer.

6. Which equation describes this relationship displayed in the table at the below?

- (1)  $f(x) = x$
- (2)  $f(x) = 2x - 1$
- (3)  $f(x) = x + 1$
- (4)  $f(x) = x + 2$

| x | y |
|---|---|
| 1 | 1 |
| 2 | 3 |
| 3 | 5 |
| 4 | 7 |
| 5 | 9 |

7. Given the diagram below determine if it is a function. Explain your answer.



**DON'T FORGET TEXTBOOK !!**