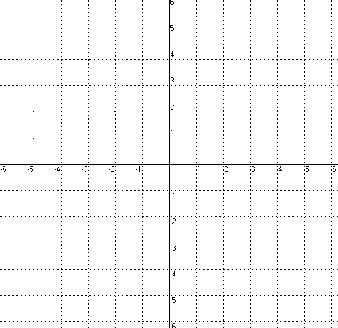
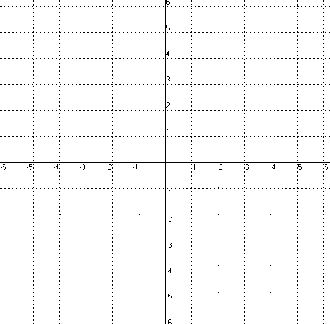
**Assignment 2: Domain and Range, Functions and Relation Terminology Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Give the domain and range for each in indicated forms (number lines, set notation and/or interval notation). ( /26)** D: D:

1) 2)



Set notation: Set notation:

Interval notation:

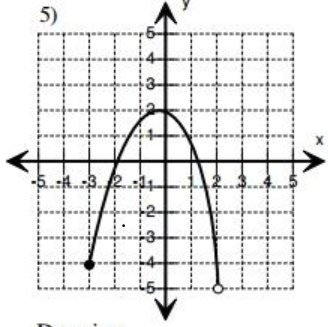
R:

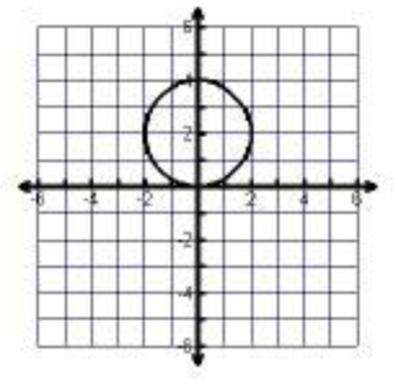
R:

Set notation:

Set notation:

Interval notation:

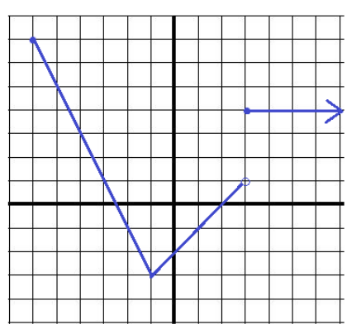


3) D: 4) D:

Set notation: Interval notation:

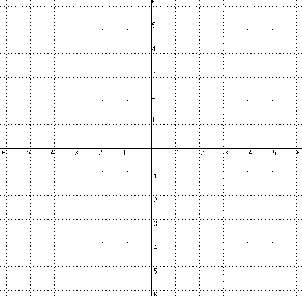
R: R:

Set notation: Interval notation:

 D: D:

(-1, 3)

5) 6)



Interval notation: Set notation:

R: R:

Interval notation: Set notation:

|  |  |
| --- | --- |
| **Write the domain and range of each. Tell if the relation is a function or not! /6** | |
| {(5, 2), (–3, 1), (5, –4), (0, 11)} | {(–6, –8), (5, 1), (9, –4), (7, 1), (15, 0)} |
| Domain:  Range: | Domain:  Range: |
| Function: yes or No (circle one) | Function: yes or No (circle one) |

|  |  |
| --- | --- |
| **Graph 1 /8** | 1. For Graph 1 check all descriptions that apply to the graph. /4 |
| **Z**  1 5  **X**     1. Use the graph to find f(4). Show work on graph to find value!    f(4) = /2 | 1. If f(x) = 5, use the graph to find the value(s) of x. Show work on the graph!   x = /2 |
|  |  |
| **Graph 2**  **/5**    3. Check all that apply to graph 2. /3 | 1. Which inequality correctly shows the range of  Graph 2? \_\_\_\_\_\_\_\_\_\_\_\_  /1  2. Which interval notation best describes the domain of Graph 2? \_\_\_\_\_\_\_\_\_\_\_\_   1. /1 |

|  |  |
| --- | --- |
| **Graph 3: /7**     1. Label each point shown on the graph. i.e. (-1, 2)   **( /3)**   1. Complete the number line to represent the domain of this relation. | 1. The range of this graph is correctly written as ? Choose one response:      1. Is this data continuous or discrete? Explain how you know? **( /2)** |

|  |  |
| --- | --- |
| **Graph 4: Show work on graph for #3, 4.**  **/8** | 1. What is the domain and range in interval notation? /2 2. What is the domain and range in set notation? /2 3. What is f (-2) = ? /2 4. What is x if f(x) = 0 ?/2 |

**Total: /60 marks \_\_\_\_\_\_\_\_%**