Algebra 1 – Test Review Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Unit 1 Function Essentials Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_

Standard- I can evaluate a function in function notation.

1) Evaluate f(x) = 3x + 4 for f(-2) Solution:\_\_\_\_\_\_

2) Evaluate f(x) = -7x - 2 for f(5) Solution:\_\_\_\_\_\_

3) Evaluate f(x) = 5x - 7 for f(5) Solution:\_\_\_\_\_\_

Write each function in function notation.

4) y = 3x + 2 5) y = -3x - 7

6) Evaluate the function rule **f(x) = 2x + 6** to find the range of the function for the domain

**{-2,3,6}**. (Substitute one domain value at a time to find 3 range values.

Solutions:\_\_\_\_\_\_\_\_\_\_\_\_

Standard- I can determine if an ordered pair is a solution to a function.

7)

|  |  |  |  |
| --- | --- | --- | --- |
| x | f(x) | f(x)=3x-7 | Yes or No |
| 4 | 5 |  |  |
| 6 | 8 |  |  |
| 2 | -1 |  |  |

8)

|  |  |  |  |
| --- | --- | --- | --- |
| x | f(x) | f(x)=x-7 | Yes or No |
| 0 | 6 |  |  |
| -4 | 3 |  |  |
| 8 | 9 |  |  |

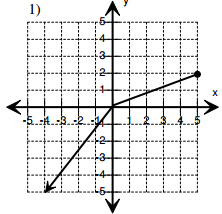
Standard- I can determine if a relation is a function.

Standard- I can identify the domain and range of a relation.

|  |  |
| --- | --- |
| {(-2,4), (-3,5), (-2,3), (-5,2)} | Does this represent a function? Circle one  Yes or No  Reasoning: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Does this represent a function? Circle one  Yes or No  Reasoning: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Does this represent a function? Circle one  Yes or No  Reasoning: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Does this represent a function? Circle one  Yes or No  Reasoning: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Does this represent a function? Circle one  Yes or No  Reasoning: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Does this represent a function? Circle one  Yes or No  Reasoning: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Standard- I can identify the increasing, decreasing, and constant intervals of a graph

|  |  |
| --- | --- |
|  | Increasing:  Decreasing:  Constant: |
|  | Increasing:  Decreasing:  Constant: |
|  | Increasing:  Decreasing:  Constant: |
|  | Increasing:  Decreasing:  Constant: |



Standard- I can use a function to create a table and graph

Create a table of values using the function below, then graph.

**f(x)=x-5**

|  |  |
| --- | --- |
| **X** | **f(x)**  **(Show all work)** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |