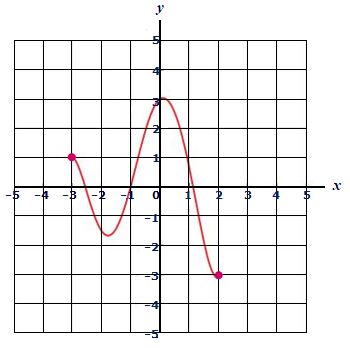
**Unit 1 Warm Up**

Find the key features for the following:

1.

Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Increasing: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Decreasing: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Positive: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Negative: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Maximum: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Relative Absolute

Minimum: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Relative Absolute

X-intercept(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is the graph a function? YES or NO

2. Given the equation, list the transformations:

|  |  |
| --- | --- |
| Transformations: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Transformations: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

3. Given the transformations, write the equation:

|  |  |
| --- | --- |
| Parent: Transformations: Up 2, stretch by 4  Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Parent: Transformations: left 4, reflect, compress by factor of ½  Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4. Given the following, write the inverse:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | x | y |  | x | y | | 2 | 7 |  |  |  | | 3 | 9 |  |  |  | | 4 | 17 |  |  |  |   Find the inverse:  Inverse: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Inverse: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 5. Evaluate for each of the following:  Image result for piecewise function |