**10C-RF8 V1 Relations and Functions – Function Notation**

**Part I:**

1. Write the equation using function notation.
2. Given , evaluate each of the following.



1. The function is shown at the right. Use the graph to determine

**Part II:**

1. A function is given by . If the domain of the function is , what is the range?
2. Given for what value of *x* would
3. The surface area of a 5 cm high cylinder can be determined using . You are told to calculate Complete the calculation. Explain what the input and output represent, and how they are related to each other.

**Part III:**

1. Determine the relationship between the input and output by writing an equation using function notation if and