Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

# WS 4-2

# Functions and Relations

**SHOW ALL YOUR WORK TO RECEIVE FULL CREDIT**

**I. Domain and Range**

1. What is the domain of the function? -1 0

 1 2

 4 3

 5 6

2. What is the range of the above function?

3. What is the domain of the function? (2, 0), (3, -4), (0, 1), (1, 1)

4. What is the range of the function? (2, 0), (3, -4), (0, 1), (1, 1)

5. Is this a function? Why or why not?

 

**II. Evaluating Functions**

6. Evaluate $f\left(x\right)=3x-2$ when $x=3$.

7. Evaluate $f\left(x\right)=x^{2}+6$ when $x=-2$.

**III. Graphing Linear Functions**

8. Graph the function.

 $f(x)=\frac{1}{2}x-1$ $f\left(x\right)=3x+1 $

 