## Range:

1. Determine the domain and range of each function:
a. $y=x+4$
b. $y=\sqrt{2 x-1}$
c. $y=\sqrt{\bar{x}}$
d. $y=\frac{5}{x-1}$

Function Notation

$$
y=3 x+5 \text { can be written to } f(x)=3 x+5
$$

2. Let $f(x)=-x^{2}+5 x-3$ and $g(x)=2 x+4$. Find each of the following:
a. $f(2)$
b. $f(q)$
c. $\quad g(a+1)$
3. For each function, find $f(3)$
a. $f(x)=3 x-7$
b. $f=\{(-3,5),(0,3),(3,1),(6,-1)\}$
c.


## Continuity:

4. Describe the intervals of continuity for each function
a.

b.

5. Determine where the function is increasing, decreasing, and constant.

6. 



Domain: $\qquad$
Range: $\qquad$
Relative Min: $\qquad$
Relative Max: $\qquad$
Intervals - Increasing: $\qquad$
Decreasing: $\qquad$
Constant: $\qquad$
Zeros: $\qquad$

