Domain:

Range:

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

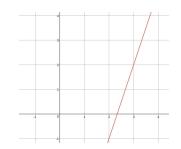
b.
$$y = \sqrt{2x - 1}$$
 d. $y = \frac{5}{x - 1}$

Function Notation

y = 3x + 5 can be written to f(x) = 3x + 5

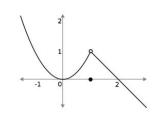
2. Let $f(x) = -x^2 + 5x - 3$ and g(x) = 2x + 4. Find each of the following: a. f(2) b. f(q) c. g(a+1)

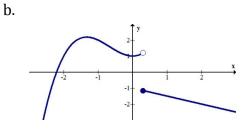
3. For each function, find f(3)a. f(x) = 3x - 7 b. $f = \{(-3, 5), (0, 3), (3, 1), (6, -1)\}$ c.



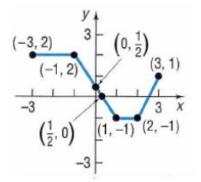
Continuity:

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





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



8.

