Answer Key

## Find the Domain and Range for each graph.
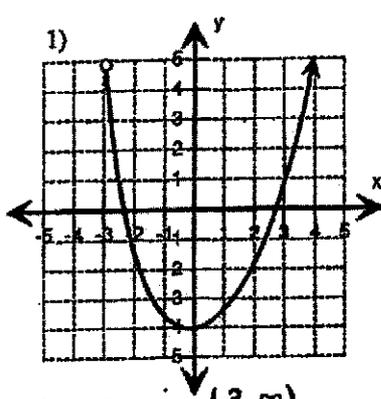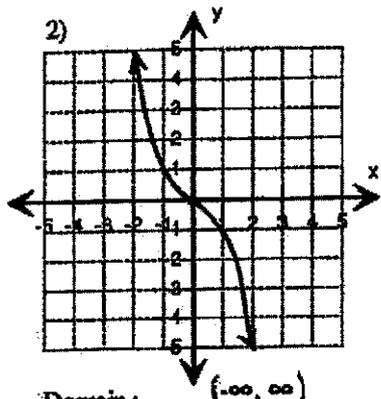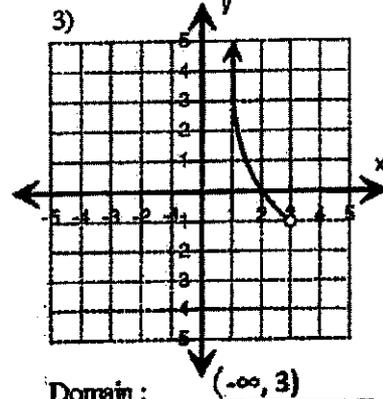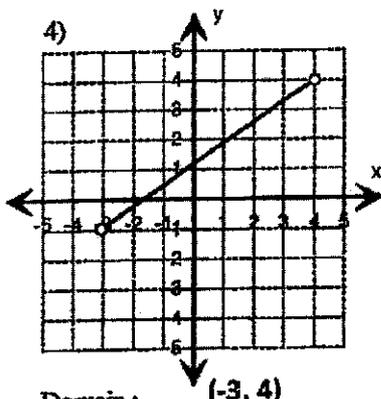
1)



Domain : _____ $(-3, \infty)$ _____

Range : _____ $[-4, \infty)$ _____

2)



Domain : _____ $(-\infty, \infty)$ _____

Range : _____ $(-\infty, \infty)$ _____

3)



Domain : _____ $(-\infty, 3)$ _____

Range : _____ $(-1, \infty)$ _____

4)



Domain : _____ $(-3, 4)$ _____

Range : _____ $(-1, 4)$ _____

5)



Domain : _____ $[-3, 2)$ _____

Range : _____ $(-5, 2]$ _____

6)



Domain : _____ $(-\infty, \infty)$ _____

Range : _____ $[0, \infty)$ _____

7)



Domain : _____ $(-5, 4)$ _____

Range : _____ $(-2, 2)$ _____

8)



Domain : _____ $(-\infty, 2)$ _____

Range : _____ $(-\infty, 0)$ _____

9)
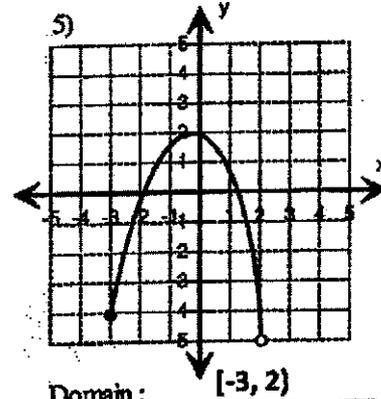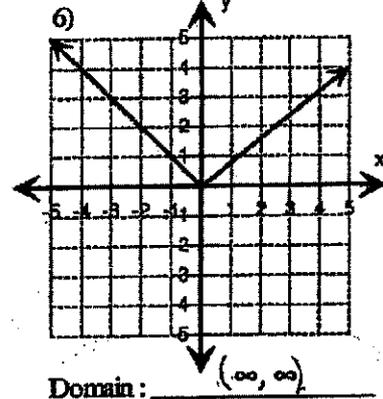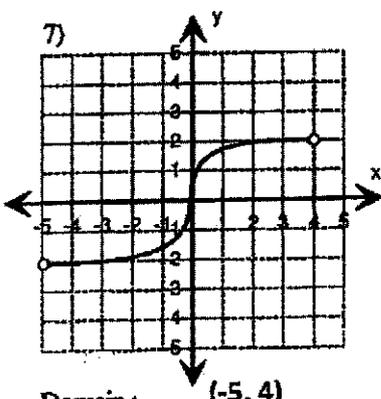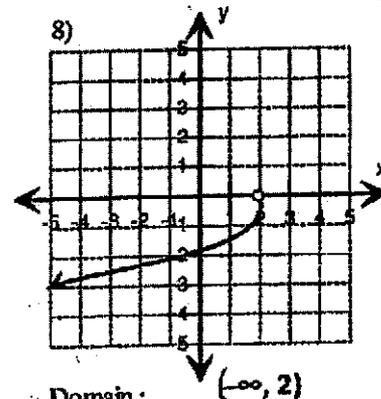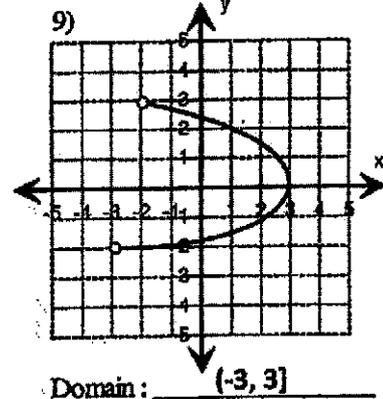


Domain : _____ $(-3, 3]$ _____

Range : _____ $(-2, 3)$ _____

# Algebra 2- Function Notation & Evaluation



Graph with points: (-4.71, 5), (1.57, 5), (-1.57, -1), (4.71, -1)
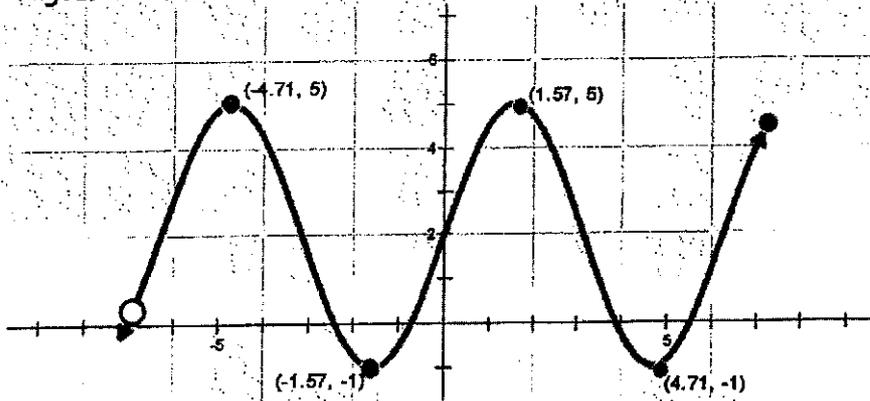
| | |
|---|---|
| a. | f(1.57) = **5** |
| b. | f(10) = **DOES not exist** |
| c. | f(?) = 5 **X = -4.71, 1.57** |
| d. | f(?) = 7 **DOes not exist** |

## Function Notation Practice

*Find each value or expression.*

1. g(x) = x + 1

a. g(0)     b. g(-4)     c. g(3x + 1)     d. g(?) = 10

**1**     **-3**     **3X + 2**     **X = 9**

2. f(x) = 5x² + 4x

a. f(0)     b. f(-1)     c. f(t)

**0**     **1**     **5t² + 4t**

3. h(x) = 4x² – x + 2

a. h(3)     b. h(0)     d. h(-2)

**35**     **2**     **20**

4. f(x) is graphed to the right:

a.    f(3) = **4**     b.    f(?) = 0   **X = 1, 5**

c.    f(?) = 7     d.    f(0) = **– 2**

**DOes not exist**