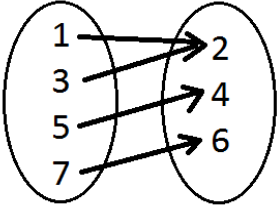
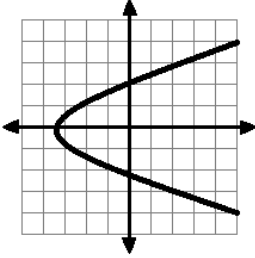


Unit 7 Review: Functions

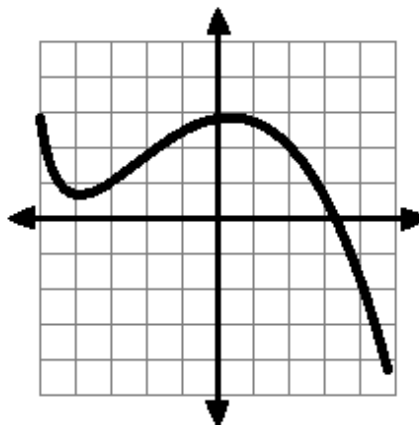
Determine which of the following are functions, then give the domain and range of the given graph in both interval notation and with inequalities or with roster notation.

<p>1) Yes / No</p> 		<p>2) Yes / No $\{(6, -1), (2, 1), (3, 8), (6, 5), (-7, 4)\}$</p>													
<p>Interval Notation or Roster: D: R:</p>	<p>Inequality: D: R:</p>	<p>Interval Notation or Roster: D: R:</p>	<p>Inequality: D: R:</p>												
<p>3) Yes / No</p> <table border="1" data-bbox="94 1115 781 1192"> <tr> <td>x</td> <td>1</td> <td>2</td> <td>0</td> <td>-1</td> <td>1</td> </tr> <tr> <td>y</td> <td>4</td> <td>8</td> <td>7</td> <td>3</td> <td>2</td> </tr> </table>		x	1	2	0	-1	1	y	4	8	7	3	2	<p>4) Yes / No</p> 	
x	1	2	0	-1	1										
y	4	8	7	3	2										
<p>Interval Notation or Roster: D: R:</p>	<p>Inequality: D: R:</p>	<p>Interval Notation or Roster: D: R:</p>	<p>Inequality: D: R:</p>												

Find the indicated answer then write the coordinate pair:

- 5) Use the following function to answer the following: 6)

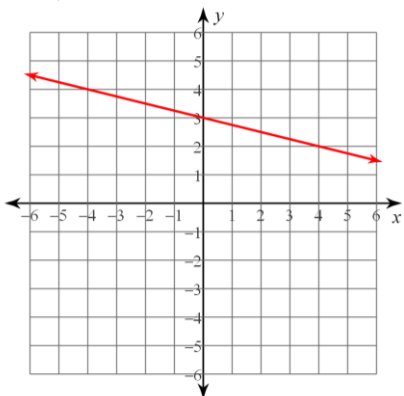
$$f(x) = 4x^2 - 3x + 4$$



a) $f(3) =$ (,)	a) $f(-3) =$ (,)
b) $f(0) =$ (,)	b) $f(2) =$ (,)
c) $f(-3) =$ (,)	c) $f(4) =$ (,)

Write a linear function for each of the following (Remember m (slope) and b (y-intercept):

7) Function: _____



8) Function: _____

x	y
-1	2
0	4
1	6
2	8

SM1

9) Function: _____

(3,5) and (5,11)

10) Function: _____

Caitlin has \$200 in savings and makes \$150 a week.

11) Using the situation in problem 10 what does $f(6) = 1100$ mean?

Use the following functions to answer 12-14.

$$f(x) = 4x - 2$$

$$g(x) = 3x + 8$$

$$h(x) = 2x^2 + 4$$

12) $f(g(-4))$

13) $(h - f)(x)$

14) $(h + g)(x)$