Name:	Class:
Consider the relation $f(x) = x^2 - 4x + 3$ . 1.) Find $f(5)$	2.) Find <i>f</i> (–7)
3.) Find <i>f</i> (2 <i>a</i> )	4.) Find $f(3x - 4)$

5.) Graph the function using the table of values below.

x	$x^2 - 6x + 3$	(x, y)
-1		
0		
1		
2		
3		
4		
5		



6.) Find the average rate of change from x = 2 to x = 5.

- 7.) Determine if the relation is a function. Explain your reasoning.
- 8.) Determine the range of the function.

The table to the side shows the average yearly balance of a savings account where interest is compounded annually. The balance in dollars, b(t), is a function of the time in years, t.

- 9.) Find f(30) and interpret this value.
- 10.) Find *t* when f(t) = 1824.39 and interpret this value.

Year	Balance, in Dollars
0	380.00
10	562.49
20	832.63
30	1232.49
40	1824.39
50	2700.54

11.) Find the average rate of change from 10 years to 40 years. Interpret this value.

Consider the function h(x) to the side. 12.) Explain why this is a function.

- 13.) Find the following values. f(-3) = f(2) =
- 14.) Find all values of x for which f(x) = 0.
- 15.) Find the domain and range of the function.
- 16.) Find the intervals over which the graph is increasing.
- 17.) Find the intervals over which the graph is decreasing.
- 18.) Find the *approximate* coordinates of the **relative** minimum and the **relative** maximum of the graph (turning points).

