

## Quiz 7

Name:

Perm Number:

1) If  $f(n) = n^2 - 1$ , compute  $\sum_{n=0}^4 f(n)$ .

 $y =$ 

2) If  $x$  is changed from 2 to  $2 + h$ , find the change in  $f(x) = 12 + x - x^2$ . (Your final answer should be in terms of  $h$ .)

 $y =$ 

(More on back)

3) Consider  $f(x)$  from problem 3 above, and suppose that  $f(x)$  is the height (in meters) of boulder  $x$  seconds after being launched from a catapult. In your own words, how could we use the answer from problem 3 to find the velocity of the boulder exactly 2 seconds after it was launched?