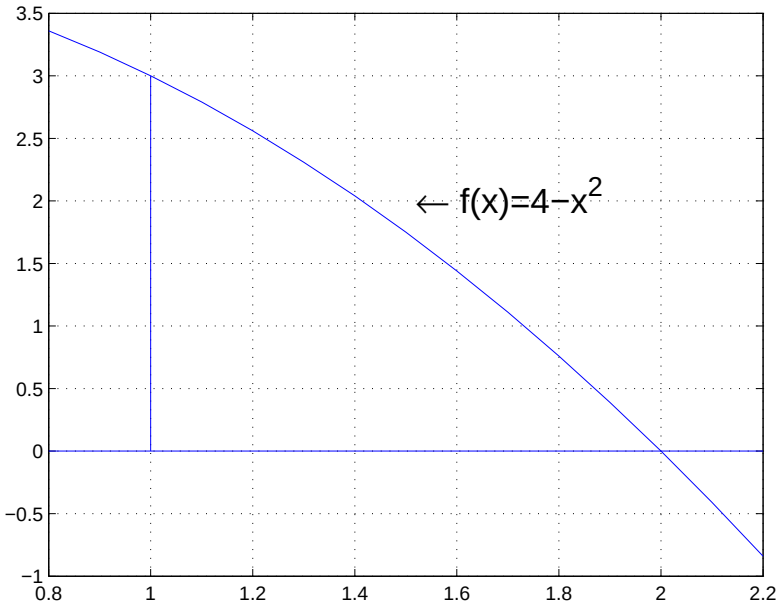
NAME AND SECTION:_____

INSTRUCTOR'S NAME:_____

QUIZ 3

1. Consider the function $f(x) = 4 - x^2$ defined on the interval $[1, 2]$ as in figure:



and let $g(x)$ be defined as follows

$$g(x) = \int_1^x f(t)dt.$$

Shade on the graph a region representing the value $g(x)$.

2. Compute the function $g'(x)$ justifying all your steps:

3. Compute the function $g(x)$ justifying all your steps: