

## Quiz

**Directions:** Carefully read each question below and answer to the best of your ability in the space provided. You MUST show your work to receive full credit!

1. Consider the function

$$f(x) = x^2 + 2x + 10.$$

- (a) (5 points) Find the instantaneous rate of change of  $f(x)$  when  $x = 2$ .

- (b) (5 points) Find the value of  $x$  for which the tangent line to  $y = f(x)$  has slope equal to 3.

Name: \_\_\_\_\_

Section (circle one):            021            022            023            024

Question:	1	Total
Points:	10	10
Score:		