

Name \_\_\_\_\_ Quiz 1

1) Using the function given below, find and simplify  $\frac{f(x+h)-f(x)}{h}$ .

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

2) Given the function below, find  $2f(x) + 5$ .

$$f(x) = \begin{cases} 3x - 1, & x \leq 0 \\ -2x + 1, & x > 0 \end{cases}$$