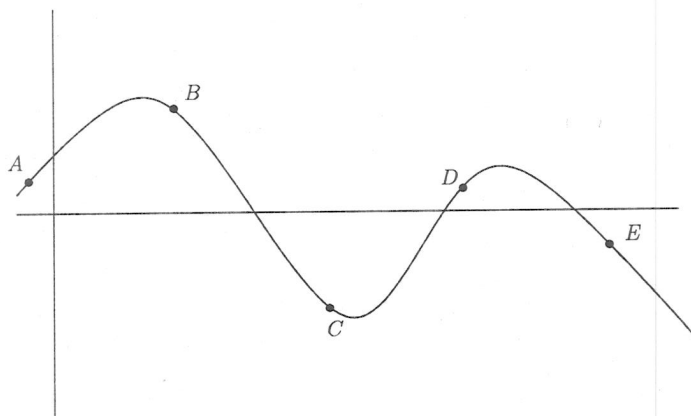Mathematics 122   Quiz 14   Name: _____Key_____

(1) For the graph below

1 pt   (a) At which of the labeled points is the derivative f' positive?

Positive f' points are: _____A, C_____

1 pt   (b) At which of the labeled points is the second derivative f'' positive?

Positive f'' points are: _____C_____

1 pt (2) Draw the graph of a function with $f' < 0$ and $f'' > 0$

decreasing   concave up

1 pt (3) Draw the graph of a function that is increasing and concave down.

1 pt (4) Draw the graph of a function that is increasing at an increasing rate.