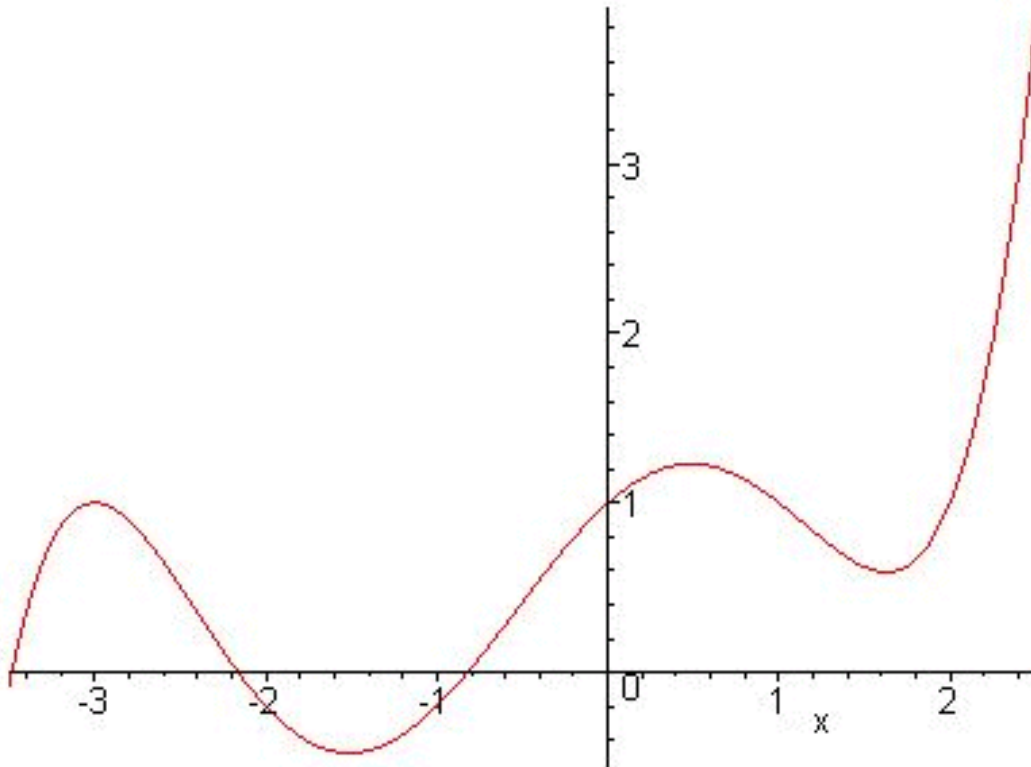**Quiz 3   Calculus 1   9/23/03**

Each problem is worth 5 points. For full credit indicate clearly how you reached your answer.

1. Sketch the graph of the derivative of the function shown:

(Problem 2 is on the back)

2. Use the definition of the derivative to show that if $f(x) = x^2 - 3$, then $f'(-2) = -4$.