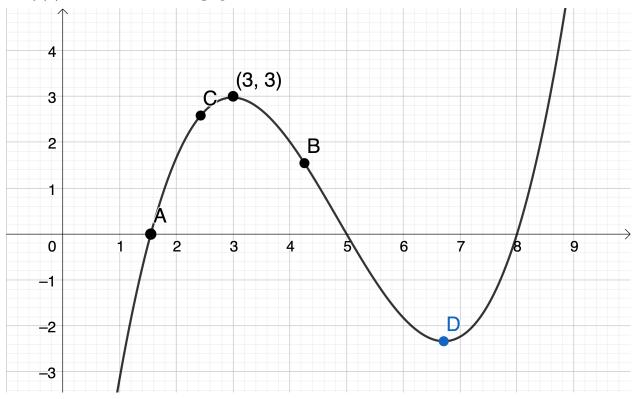
Instructions: Print your name (first and last) in the indicated space above. Solve each problem carefully and organize your work. You must show all of your work in order to earn full credit.

1. Let f(x) be the function with graph below.



(a) Order the points A, B, C, D in order from greatest slope of the tangent line at that point to least.

(b) Find an equation for the tangent line at the point (3,3).

- 2. Let $f(x) = 6x x^2$.
 - (a) Find the average rate of change of f from x = 1 to x = 1.01.

(b) Using the definition of derivative, find f'(1).

(c) Use your answer to (c) to find an equation to the tangent line to the graph of f at x=1.