- 2. [12 points] Suppose that the line tangent to the graph of f(x) at x = 3 passes through the points (1,2) and (5,-4).
 a. [2 points] Find f'(2)
 - **a**. [3 points] Find f'(3).

b. [3 points] Find f(3).

c. [3 points] Estimate the value of f(2.9).

d. [3 points] If the graph of f is concave up, is your estimate in part (c) an overestimate, an underestimate, or can you not tell? Explain or demonstrate your answer graphically.