## Section 2.7: Additional Problems

- 1. The tangent line for the function f(x) at x = 3 is y = 4x + 5. Find the values of f(3) and the instantaneous rate of change of the function at x = 3, i.e. f'(3).
- 2. The function f(x) has a tangent line at x = 4 that goes through the points (4,1) and (6,11). Find the values of f(4) and f'(4).
- 3. The function f(x) has a tangent line at x = 2 that goes through the points (1, 10) and (4, 1). Find the values of f(2) and f'(2).