Lesson 1.3 – Derivatives of Linear Functions

1. Find the derivative of each constant function.
    (a) $y = b$
    (b) $y = 4$
    (c) $y = -3.1$

2. Find the derivative of each linear function.
    (a) $y = mx + b$
    (b) $y = x - 4$
    (c) $y = -2x$

3. Let $T(t) = -2.1t + 63$ be the temperature in degrees Fahrenheit t hours after noon for $0 \le t \le 6$.
    (a) Find the temperature at noon.
    (b) Find the temperature at 3:00 p.m.
    (c) How fast was the temperature changing at 3:00 p.m.?