**Calculus 12 Intro to Anti-derivatives Name:**

**1. Find y, given y’:**

(a) y’ = 2x + 1 (b) y’ = (4x)9 (c) y’ = (sin5x)(cosx)

(d) y’ = e7x (e) y’ = 2/x (f) y’ = (cos3x)4 sin3x

**2.** Find f(x) such that f(1) = –4 and f’(x) = 6x2 – 6x + 4

**3.** An object is moving along a path over a certain period of time. Given the following:

(d = distance, v = velocity, a = acceleration, t = time).

a = 2t + 15 v(2) = 12 d(0) = 5

(a) Find the formulas for **d** and **v**.

(b) Find d(3) and v(5).