Math 104 90A[1] September 13th, 1999 Worksheet 1

http://www.math.ubc.ca/~ athreya/104

---

1. Find the equation of the tangent line to the curve $y = f(x) = 6x^2$ at the point whose x-coordinate is $x = 1$.

2. Using the definition of the derivative, find f' for the following functions:

   (a) $y = f(x) = mx + b$. What can you say about f' ?

   (b) $p = f(q) = q^3$

   (c) $s = f(t) = t^2 - \frac{1}{t}$

3. Let $I > 0$. Find $\frac{dC}{dI}$, if $C = \sqrt{3I}$.

---

[1] **Office hours:** Monday:2:00-3:00pm, Tuesday:3:30-5:30 pm