Math 100 Answers to Review Problems
November 13th, 2007

1. (a) \( \frac{dy}{dx} = \frac{1 - 2y}{2x + 2y - 3} \)

   (b) \( \frac{dy}{dx} = \frac{2y - 1}{\cos y - 2x} \)

2. \( y = (7/4)x - 1/2 \)

3. (a) 179 ft.

   (b) \( v(t) = -32t \text{ ft./sec}, a(t) = -32 \text{ ft./sec}^2 \)

   (c) \(-8\sqrt{179} \text{ ft/sec}\)

4. \( 5/8\pi \text{ ft/min} \)