

Name: _____

Panther ID: _____

Quiz 3 Calculus I – Spring '14

To receive credit you MUST SHOW ALL YOUR WORK.

1. (4 pts) Solve the initial value problem:

$$\frac{dy}{dx} = \frac{3}{2x} + x^2 - 1, \quad y(1) = \frac{1}{3}$$

2. Compute (3 pts each)

(b) $\int \frac{\cos(3/x)}{x^2} dx$

(c) $\int \frac{\sec^2 x}{\sqrt{1 - \tan^2 x}} dx$