

## Quiz

Intermediate Calculus & Analytic Geometry (MATH 242 A) Date: October 15, 2013

Name:

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1. (2 pt) Differentiate  $y = \frac{x^{3/4} \cdot \sqrt{x^2+1}}{3x+2}$ .

2. (3 pt) Differentiate  $y = x^{\sqrt{x}}$ .

3. (2 pt) Calculate  $\int \tan x \, dx$ .

4. (3 pt) Calculate  $\int_1^{e^{\ln x}} \frac{1}{x} \, dx$ .