

Math 165 (Chris Kurth)
Spring 2008
Quiz 8

Show all work. Answers without work will not receive credit.

1. (6 points) Evaluate:

$$\int (4x^2 - \frac{1}{x^3}) dx$$

2. (7 points) Evaluate:

$$\int t\sqrt{t^2 + 3} dt$$

3. (7 points) Find the curve satisfying

$$\frac{dy}{dx} = \sqrt{\frac{x}{y}}$$

passing through the point $(x, y) = (1, 4)$.