Math 0230

Quiz 2

Fall 2014

Your name:

Time: 20 minutes

Your TA's name:

No calculators, no notes, no books are permitted.

SHOW ALL WORK (no work = no credit). Write neatly. Simplify your answers.

1. [5 points] Evaluate the integral  $I = \int \cos^2 x \tan^3 x \, dx$ .

2. [5 points] Evaluate the integral  $I = \int_{1}^{2} \frac{6 dx}{x^2 - 3x} dx$ . Simplify your answer.

bonus problem [5 points extra] Evaluate the integral  $I=\int \frac{dx}{x^2\sqrt{x^2-9}}$ . Simplify your answer. Write it in terms of x.