

LAST NAME:

FIRST NAME:

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**Math 65B - Summer 2016**

Quiz 1: Tuesday June 7, 2016

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1. (1 point) Evaluate the integral using substitution

$$\int \frac{\sec^2(1/x)}{x^2} dx$$

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Please, show all work.

2. (1 point) Find the area of the region bounded by  $y = \cos(x)$ ,  $y = \sin(2x)$ ,  $x = 0$ ,  $x = \frac{\pi}{2}$ .

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Please, show all work.