

MATH141(0332) Calculus II

Quiz 12, Thursday, December 4, 2008

Name: _____

Show all work clearly and in order, and circle your final answers. Justify your answers algebraically whenever possible. Calculator is not allowed in this quiz. You have 15 minutes to take this 10 point quiz.

1. (6 points) Change the polar coordinates of the following curve to be x-y coordinates, and describe the shape of the curves.

$$(1) r \cos(\theta) = 5 \quad (2) r = 5 \cos(\theta)$$

2. (4 points) Evaluate the following integral.

$$\int \frac{1}{\sqrt{2x^2 + 4x + 4}} dx$$