Name:

MATH 231 ED5 / Spring 2010

Quiz 11

Instructions: You have 15 minutes to complete this quiz. No calculators, notes, phones, socializing, or other suspicious behaviors are allowed. Read the problems carefully. Explain your answers and show your work.

1. Find an equation for the tangent line to the parametric curve

$$x = \tan \theta$$
$$y = \sec \theta$$

at the point $(1, \sqrt{2})$.

2. Find the arc length of the parametric curve

$$x = e^t + e^{-t}$$
$$y = 6 - 2t$$
$$0 \le t \le 3.$$