

NAME:

Math 105 - Quiz 7 - October 12, 2007

Instructions: Show all of your work and circle your final answers. Calculators are allowed, but notes and books are not.

1. (10 pts.) Find all of the stationary points of  $f(x) = x^2 - \ln x$ . Classify each as a local minimum, local maximum, or terrace point. (Hint: What is the domain of  $f(x)$ ?)

2. (10 pts.) Find an equation of the line tangent to the curve  $y = 2e^x$  at  $x = 0$ .