Quiz 10

MATH 221

Name: _____

For full credit please explain all of your answers. **No calculators** are allowed.

Problem 1. Compute:

$$\int_0^1 \frac{x}{x+1}\, dx$$

Problem 2. Find $x \geq 0$ so that the function $F(x)$ is maximized:

$$F(x) = \int_0^x -t^2 + 2t + 8\ dt$$