Name:
September 15, 2016
MAC 2313.9722
Cyr

<div align="center">

Quiz 3

You must show all work to receive full credit!!

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Problem 1. (4 points) Evaluate the integral $\int_0^1 \left\langle \dfrac{1}{t+1}, \dfrac{1}{t^2+1}, \dfrac{t}{t^2+1} \right\rangle \, dt.$

Problem 2. (6 points) Find the length of the curve $\mathbf{r}(t) = \langle 2t^2 + 1, -1, t^3 \rangle$ over the interval $0 \le t \le 1$.