Fall 2020 ENG 5300 Quiz 2 Yanjun Yao

You must show **all** work to receive full credit. All work is to be your own. October 5

This is a closed books and notes test. Be organized. Total points: **20** 19:44- 19:57

1. §10.4 Evaluation of Line Integrals by Green's Theorem. 20 points

   Using Green's Theorem, evaluate $\oint_C \mathbf{F}(\mathbf{r})\cdot d\mathbf{r}$ counterclockwise around the boundary curve C of the region R, where

   $\mathbf{F} = [\cosh y, -\sinh x]$, $R:\ 1 \le x \le 3, \quad x \le y \le 3x$