Fall 2020 ENG 5300 Quiz 2 Chenghao Ji

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

This is a closed books and notes test. Be organized. Total points: 20

1. §10.4 Evaluation of Line Integrals by Green's Theorem. 20 points Using Green's Theorem, evaluate  $\int_C y^3 dx - x^3 dy$  counterclockwise around the boundary curve C of the region R, where C is the circle  $x^2 + y^2 = 4$ .