Fall 2020	ENG 5300	Quiz 2	Yufan Lu
You must show all	work to receive full credit	. All work is to be your	own. October 5
This is a closed ho	oks and notes test. Re ord	ranized Total points	<u>: 20 19.44- 19.59 </u>

1. §10.4 Evaluation of Line Integrals by Green's Theorem. 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 $\mathbf{F} = [x^2y^2, -x/y^2], \ R: \ 1 \le x^2 + y^2 \le 4, \ x \ge 0, \ y \ge x.$ 20 points

instructor: nart shawash

Hint: Polar coordinates: $dA = r dr d\theta$, $r \ge 0$, $x = r \cos \theta$, $y = r \sin \theta$