

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  $\int_C xy^2 dx + 2x^2y dy$  counterclockwise around the boundary curve  $C$ . Where  $C$  is the triangle with vertices  $(0, 0), (2, 2), (2, 4)$ .