QUIZ #3: MATH 301-06 Feb 25, 2018

NAME:...ID:...............................

Ex#1: Use Green's theorem to evaluate the integral

$$\oint_C \left(e^{\tan x} - 2xy\right) dx + \left(\ln(e^y - 1) + x^2\right) dy$$

where the closed path C consists of those parts of the curves $y = x^3$ and $y = x$ in the first quadrant oriented counterclockwise.