Quiz-Green's Theorem

Let \vec{c} be a positively oriented path along the boundary of the triangle with vertices (0,0), (1,0), and (0,2). Compute

$$\int_{\vec{c}} e^y \, dx + e^x \, dy.$$

Show all work and clearly mark your final answer. No calculators/notes allowed. Partial credit will be given for correctly explaining any steps you're unable to carry out, as well as demonstrating correct methods with algebraic errors.