

The majority of the credit you receive will be based on the completeness and the clarity of your responses. **Show all of your work and justify your solutions as much as possible.**
This is a 15 minute quiz and has 1 questions, for a total of 10 points

- (10 points) 1. If C is the positively oriented boundary of the region enclosed by the parabolas $y = x^2$ and $x = y^2$, evaluate

$$\int_C (y + e^{\sqrt{x}}) dx + (2x + \cos(y^2)) dy.$$