

Quiz 10

Time: 15 minutes

1. Evaluate $\int_C y dx + xy dy$ where C is the parabolic path $y = 2x^2$ from $(0, 0)$ to $(1, 2)$.
2. Use Green's theorem to compute the area bounded by the ellipse $x^2/a^2 + y^2/b^2 = 1$.

Each problem is worth 6pts.