"QUIZ" for Lecture 18

NAME: (print!) Fady besada Section: 22

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q18FirstLast.pdf) ASAP BUT NO LATER THAN Nov. 9, 8:00pm

1. Let C be the line segment from (0,1) to (2,3), find $\int_C xy \, ds$.

2. Evaluate

$$\int_C xy^2 dx + x^2 y dy \quad ,$$

where C is $x:t^2$, $y=t^3$, $0 \le t \le 1$.

$$-3 dx = 2t dt, dy = 3t^{2} dt$$

$$-3 \int_{0}^{1} (t^{2})(t^{3})^{2} (2t) dt + \int_{0}^{1} (t^{2})(t^{3}) (3t^{2}) dt = \sqrt{\frac{1}{2}}$$