

“QUIZ” for Lecture 18

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Section: 24

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 $\int_C xy \, ds$.

$$\int_0^1 4\sqrt{2}t(1+2t)dt = \frac{14\sqrt{2}}{3}$$

2. Evaluate

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

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

$$\int_0^1 5t^9 dt = \frac{1}{2}$$