"QUIZ" for Lecture 18

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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  $\int_C xy \, ds$ .

$$0_{11} + + (3_{13}) = 2+_{1} + 3+_{1} + 3+_{1} + 3+_{1} + 3+_{1} + 3+_{1} + 3-_{1} = 1 + 3+_{1} + 3-_{1} = 1 + 3-_{1} + 3-_{1} = 1 + 3-_{1} + 3-_{1} = 1 + 3-_{1} + 3-_{1} = 1 + 3-_{1} + 3-_{1} = 1 + 3-_{1} + 3-_{1} = 1 + 3-_$$

**2.** Evaluate

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

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

$$\int_{0}^{1} (4^{3})(+3)^{2}(2+) + (+^{2})^{2}(+^{3})(3+^{2})$$
  
Maple  $\frac{1}{3}$