## "QUIZ" for Lecture 12

NAME: (print!	<u></u>	Section:	

E-MAIL SCANNED .pdf OF COMPLETED QUIZ to DrZcalc3@gmail.com (Attachment: q12FirstLast.pdf) ASAP BUT NO LATER THAN Oct. 19 8:00pm

1. Calculate the iterated integral

$$\int_{1}^{2} \int_{-1}^{1} (x+y^{2}) dx dy .$$

$$\int_{1}^{2} 2 y^{3} dy$$

$$= \frac{2}{3} y^{3} \Big|_{1}^{2}$$

$$= \frac{26}{3} - \frac{2}{3}$$

$$= \frac{14}{3}$$

2. Calculate the double integral

$$\int \int_R \frac{x^2 y}{x^3 + 1} \, dA \quad ,$$
 
$$R = \{(x, y) \, | \, 0 \le x \le 1 \, , \, -1 \le y \le 1 \, \} \quad .$$

$$\int_{3}^{2} y |n| dx |
 = \frac{1}{6} |n| dx |y^{2}|^{2}
 =$$