

KFUPM--Term 151

Math 201

Quiz 5(b)

Time: 20 minutes

Date: 08-12-15

Name	ID	Sr	Sec.	Marks: /8
------	----	----	------	--------------

Q1. Evaluate the integral $\iint_R \frac{x}{1+xy} dA$, where $R: 0 \leq x \leq 1, 0 \leq y \leq 1$.

Q2. Sketch the region of integration for the integral $\int_0^\pi \int_x^\pi \frac{\sin y}{y} dy dx$ and evaluate it.

KFUPM--Term 151

Math 201

Quiz 5(c)

Time: 20 minutes

Date: 08-12-15

Name	ID	Sr	Sec.	Marks: /8
------	----	----	------	--------------

Q1. Evaluate the integral $\iint_R \left(1 - \frac{x^2+y^2}{10}\right) dA$, where $R: 0 \leq x \leq 1, 0 \leq y \leq 1$.

Q2. Sketch the region of integration for the integral $\int_0^2 \int_0^{4-x^2} \frac{x e^{2y}}{4-y} dy dx$ and evaluate it.

KFUPM--Term 151

Math 201

Quiz 5(d)

Time: 20 minutes

Date: 08-12-15

Name	ID	Sr	Sec.	Marks: /8
------	----	----	------	--------------

Q1. Evaluate the integral $\iint_R \frac{\sqrt{x}}{y^2} dA$, where $R: 0 \leq x \leq 4, 1 \leq y \leq 2$.

Q2. Sketch the region of integration for the integral $\int_0^{2\sqrt{\ln 3}} \int_{\frac{y}{2}}^{\sqrt{\ln 3}} e^{x^2} dx dy$ and evaluate it.