

KFUPM--Term 152

Math 201

Quiz 5(a)

Time: 20 minutes

Date: 28- 4-16

Name	ID	Sr	Sec.	Marks: /8
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Q1. Find the average value of $(x, y) = xye^x$ over the rectangle $R: 0 \leq x \leq 1, 1 \leq y \leq 2$.

Q2. Evaluate $\int_1^{\ln 8} \int_0^{\ln y} e^{x+y} dx dy$.

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Quiz 5(b)

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

Q2. Evaluate $\int_0^\pi \int_x^\pi \frac{\sin y}{y} dy dx$.

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Quiz 5(c)

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Q1. Evaluate $\iint_R \frac{xy^3}{x^2+1} dA$, where $R: 0 \leq x \leq 1, 0 \leq y \leq 2$.

Q2. Evaluate $\int_0^2 \int_0^{4-x^2} \frac{x e^{2y}}{4-y} dy dx$.

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Quiz 5(d)

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

Q2. Evaluate $\int_0^{2\sqrt{\ln 3}} \int_{\frac{y}{2}}^{\sqrt{\ln 3}} e^{x^2} dx dy$.