KFUPM Term (111) Name_____ Serial # _____

MATH 201 Quz# 4(a) ID# _____ Section # 22 Marks: /9

Time: 20 Minutes

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1. Evaluate $\iint_R \cos(x+2y)\,dA$ *where* $R = \{(x,y) \mid 0 \le x \le \pi \text{ and } 0 \le y \le \pi/2\}$

2. Set up a double integral to find volume of the solid bounded by the cylinder $x^2 + y^2 = 4$ and the planes y + z = 4 and z = 0.

KFUPM Term (111) Name_____ Serial # _____

MATH 201 Quz# 4(b) ID# _____ Section # 22 Marks: /9

Time: 20 Minutes

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1. Evaluate $\int_0^2 \int_{y/2}^1 \cos(x^2)\,dx\,dy$

2. Set up a double integral to find volume of the solid that lies in the first octant and is bounded by three coordinate planes and the cylinders $x^2 + y^2 = 4$ and $y^2 + z^2 = 4$