Midterm Exam 3 (MATH 2163 Calculus III; Sections 1/3)

Student's Name: Date: **April 19, 2013**

The maximum number of points is 125 (25 points for each problem) including 25 bonus points. 100 points earned are counted as 100% score

Present complete solutions. Please show the steps done to solve each problems. Give the exact answers (do not approximate any numbers). You can use calculators for arithmetic computations and/or for estimating your answers, but not to get values of the integrals involved.

1. Evaluate the following triple integral.

$$\iiint_E x^2 e^y \, dV,$$

where E is the solid bounded by the planes $x = 0$, $y = 0$, $y = 3$, $z = 0$, and $2x + z = 4$.

Solution. If we look at the intersection of the plane $2x + z = 4$ (by the way, it is parallel to y-axis) with the xy-plane, then it is clear that it is the square $[0, 2] \times [0, 3]$. Thus,

$$E = \{(x, y, z) : 0 \le x \le 2, 0 \le y \le 3, 0 \le z \le 4 - 2x\}.$$

Hence,

$$\iiint_E x^2 e^y \, dV = \int_0^2 \int_0^3 \int_0^{4-2x} x^2 e^y \, dz \, dy \, dx = \int_0^2 \int_0^3 x^2 e^y (4 - 2x) \, dy \, dx.$$

Since we are integrating over a rectangle, and the function under the integral sign is a product of two functions, one of which depends only on x, another one – only on y, the integral splits into a product of two integrals:

$$= \int_0^2 (4x^2 - 2x^3) \, dx \int_0^3 e^y \, dy = \left[\frac{4x^3}{3} - \frac{x^4}{2}\right]_0^2 \cdot [e^y]_0^3 = \left(\frac{32}{3} - 8\right)(e^3 - 1) = \frac{8}{3}(e^3 - 1).$$

□

2. Sketch the region of integration and change the order of integration in the following double integral

$$\int_1^2 \int_0^{\ln x} f(x, y) \, dy \, dx.$$

Solution. The iterated integral corresponds to

$$\iint_D f(x, y) \, dA,$$

where

$$D = \{(x, y) : 1 \le x \le 2, 0 \le y \le \ln x\}.$$

After sketching D, it is clear that D is a domain of both types – Type I and Type II. On the curve $y = \ln x$, we have (just solve it for x) $x = e^y$. So, as a Type II domain, D has the following description:

$$D = \{(x, y) : 0 \le y \le \ln 2, e^y \le x \le 2\},$$

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Léo Pomar

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