

Math 212-4 - Practice Final Solutions

April 27, 2007

1. For material covered on the first two exams (chapters 1-6), review questions from the exams and practice exams. For material in chapters 7 and 8, here are some review questions:
2. Be able to state the Green's, Divergence, and Stoke's Theorem.
3. (a) Evaluate the integral $\int_C ydx - xdy$ where C is the boundary of the triangle with vertices $(0, 0, 0)$, $(10, 0, 0)$, $(3, 5, 0)$.

We could do this directly, but since the boundary of the triangle consists of three edges, we would have to parameterize the three parts and evaluate the line integral along each one. Instead, we can use Green's Theorem to convert the line integral to an integral over the entire triangle. We have

$$\int_C ydx - xdy = \iint_D -1 - 1dA = -2 \iint_D dA$$

But since $\iint_D dA$ is just the area of the region D , which is the triangle, this will be $1/2 * 10 * 5 = 25$. Therefore

$$\int_C ydx - xdy = -2 \iint_D dA = -2 * 25 = -50$$

- (b) Let R be the region in the plane given by $0 \leq x \leq 1, x^2 \leq y \leq x$. Evaluate the integral $\int_C x^2dx + xydy$, where C is the boundary of R .

Again, we can use Green's Theorem to compute the line integral

$$\int_C x^2dx + xydy = \iint_D ydA = \int_0^1 \int_{x^2}^x ydydx$$

which when evaluated is

$$\frac{1}{2} \int_0^1 x^2 - x^4 dx = \frac{1}{2} \left(\frac{1}{3} - \frac{1}{5} \right)$$

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