Calculus with Analytic Geometry 2

Final Exam Study Guide and Sample Problems

Solutions

The date for the final exam is December 10, 2017, 4–6:30p.m.–BU 120

Note. The final exam will consist of exercises, and some theoretical questions, from the topics we covered in class from Chapters 6, 7, 8, and 9 of the textbook. I am listing here a number of problems that, in my opinion, you should know how to do. Consider them practice. The exam as such will certainly be much shorter and probably much easier. It could also be quite different; the main thing it will have in common with this sample exam is that the skills you need to do well with these problems are the same you need for the final. Then again, the final could be just a subset of this problem list. Time will tell.

1. Compute the following integrals:

   (a) $\int_e^{e^2} \frac{dx}{x \ln^3(x)}$

   (b) $\int_0^{\pi/2} x^2 \cos x \, dx$

   (c) $\int \frac{t^2 + 8}{t^2 - 7t + 12} dt$

   (d) $\int x^3 e^{-x^2} dx.$

   (e) $\int_0^{\infty} \frac{x^2 - 1}{(x+4)(x^2 + 4x + 5)} dx.$

   (f) $\int \frac{dx}{x^2 \sqrt{9 - x^2}}.$

   (g) $\int \sin^7 \theta \cos^4 \theta \, d\theta.$

   (h) $\int \frac{x^2 + x + 2}{x^3 - 6x^2 + 12x - 8} dx.$

   (i) $\int x^3 e^{-2x} dx.$

   (j) $\int \frac{\sqrt{x^2 - 9}}{x^4} dx.$

   (k) $\int_0^{\sqrt{3}/2} \frac{x^2}{\sqrt{1 - x^2}} dx.$

   (l) $\int_0^{1/2} \frac{2x + 2}{x^2 - 6x + 9} dx$

   Solution. You can use (for example) Wolfram alpha to check if you computed these integrals correctly. The integral in (e) diverges.

2. The line $y = ax$ divides the region bounded by the curve $y = x(1 - x)$ and the x-axis into two regions of equal area. Find a.

   Solution. Equating $ax = x(1 - x)$ there is a solution with $0 \le x \le 1$ if and only if $0 \le a \le 1$; then it is $x = 1 - a$. The full area bounded by the curve is

   $$\int_0^1 x(1 - x) \, dx = \frac{1}{6}.$$

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web nov 9 2023 vector addition is commutative by this principle the order of vectors to be added does not impact the result of the addition let two vectors p and q be added together then p q q p vector addition is distributive it suggests the sum of two vectors equals the sum of the scalar times of the two vectors singularly

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web oct 16 2023 vector addition is a mathematical operation that combines two or more vectors to produce a new vector called resultant vector while we can simply add any two scalar quantities but while adding the two vectors we need to be careful about their direction which are given by their unit vectors