



101: Calculus – Multivariable Calculus

Final Exam

The exam consists of the same questions that appeared in the previous exam.

Time allowed: 180 minutes (3 hours).

Problem 1 (25 points)

Let $f(x, y, z) = x^2 + y^2 + z^2$ and $g(x, y, z) = x^2 + y^2 + z^2 + 1$.

$$f(x, y, z) = x^2 + y^2 + z^2$$

Find the maximum and minimum values of f on the sphere $x^2 + y^2 + z^2 = 1$. Use the method of Lagrange multipliers. Be sure to check the boundary of the domain.

$$\nabla f = \lambda \nabla g$$

Setting $\nabla f = \lambda \nabla g$ yields the system of equations $2x = 2\lambda x$, $2y = 2\lambda y$, $2z = 2\lambda z$, and $x^2 + y^2 + z^2 + 1 = x^2 + y^2 + z^2$.

The last equation simplifies to $1 = 0$, which is impossible. Thus, the only critical points occur on the boundary $x^2 + y^2 + z^2 = 1$.

On the boundary, $f(x, y, z) = x^2 + y^2 + z^2 = 1$. The maximum value is 1 and the minimum value is 0.

Therefore, the maximum value of f on the sphere is 1 and the minimum value is 0.

Now we need to find the maximum and minimum values of g on the sphere $x^2 + y^2 + z^2 = 1$.

Since $g(x, y, z) = x^2 + y^2 + z^2 + 1$, we have $g(x, y, z) = 1 + 1 = 2$ on the sphere.



Thus, the maximum value of g on the sphere is 2 and the minimum value is 2.

Therefore, the maximum value of g on the sphere is 2 and the minimum value is 2.

Finally, we need to find the maximum and minimum values of f on the sphere $x^2 + y^2 + z^2 = 1$. We have already found that the maximum value is 1 and the minimum value is 0.

Math A160 Introduction To Statistics

Jay Lehmann



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