

Math 163A**Fall 2006****Guide for the Final Exam**

The final exam is Saturday 18 November, at 12:20 pm, in our classroom. This is also the final deadline for any late good problems.

The exam is cumulative, but there will not be any questions specifically from Chapters 1 and 2, which were the subject of test 1. The tests and their study guides give good sample questions for those sections.

Here are some sample questions from Sections 9.3 and 9.4, which we covered after the last test.

1. Let $f(x, y) = x^2 + xy + y^2 - 6x$. Find all extrema of f and identify any saddle points.
2. Use Lagrange multipliers to find the minimum of $f(x, y) = x^2 + 2y^2 - xy$ subject to the constraint $x + y = 8$.

Math 163A**Fall 2006****Guide for the Final Exam**

The final exam is Saturday 18 November, at 12:20 pm, in our classroom. This is also the final deadline for any late good problems.

The exam is cumulative, but there will not be any questions specifically from Chapters 1 and 2, which were the subject of test 1. The tests and their study guides give good sample questions for those sections.

Here are some sample questions from Sections 9.3 and 9.4, which we covered after the last test.

1. Let $f(x, y) = x^2 + xy + y^2 - 6x$. Find all extrema of f and identify any saddle points.
2. Use Lagrange multipliers to find the minimum of $f(x, y) = x^2 + 2y^2 - xy$ subject to the constraint $x + y = 8$.