

Name_____ ID_____ Section_____

MATH 253 Honors Maple Quiz Fall 2002
Sections 201-202 P. Yasskin

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TO BEGIN THE EXAM:

1. WRITE your NAME, ID and SECTION at the top of this paper.
2. TYPE your NAME, ID and SECTION at the top of the Maple Worksheet.
3. EXECUTE **with(vec_calc) : with(linalg) : with(student) : with(plots) : vc_aliases :**
4. SAVE your worksheet as **yourlastname.mws** NOW and AFTER EACH PROBLEM.
5. NUMBER EACH PROBLEM.
6. Decimal values are OK.

THE EXAM:

1. Find the location and value of the minimum of the function $f(x,y,z) = x^2 + 2y^2 + 3z^2$ on the plane $x + y + z = 11$.
2. Plot the region between the curves $y = 2x^2 - 2$ and $y = |x|$. If the density is $\delta = 3 + y$ compute the mass and y -component of the center of mass of this region. (Be sure to display your integrals first.)

TO TURN IN YOUR EXAM:

1. Reduce the font to the first magnifying glass. Reduce any plots to about 1.5 inches high.
2. SAVE your file again.
3. EXECUTE: File + Print + Output to File + Print to make a postscript file in your home directory.
4. PRINT your file using **X-Print**.
 - Open a terminal window. (The monitor with a seashell on the bottom toolbar)
 - TYPE: **xprint -J holdout -C Yasskin -d blocker yourlastname.ps** (or the EXACT name of your postscript file)
 - Press RETURN
 - The system will ask for your xprint userid and password.
5. EXECUTE: **Edit + Remove Output + From Worksheet**
6. SAVE your file again.
7. EMAIL your file as follows:
 - To: **yasskin@calclab.math.tamu.edu**
 - Attachment: **yourlastname.mws** (or the EXACT name of your Maple file)
 - Subject: **Sec 20x**
 - Call Dr. Yasskin or your TA over to check your mailing.
 - Send the mail.