

Name_____ ID_____ Section_____

MATH 253

Maple Quiz

Fall 2003

Sections 504

P. Yasskin

1	/20
2	/30

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(VecCalc): VCalias:**
4. SAVE your worksheet as **yourlastname.mws** NOW and AFTER EACH PROBLEM.
5. NUMBER EACH PROBLEM.
6. Decimal values are OK.

THE EXAM:

1. Compute the mass of the half cylinder $x^2 + y^2 \leq 9$ with $y \geq 0$ for $-1 \leq z \leq 1$ if the density is $\rho = y$.
2. Find the vector perpendicular to the surface $x^2y + y^2z^3 = 22$ at the point $(3, 2, 1)$. Find the parametric equation of the line thru $(3, 2, 1)$ perpendicular to the above surface. Plot the surface in red for $0 \leq x \leq 6$, $0 \leq y \leq 4$, $0 \leq z \leq 2$ and the line in blue and display them in one plot, rotated so you can see both the surface and the line.

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 prompt $>_$ 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.
 - Write the Print Identifier here: _____
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 504**
 - Call Dr. Yasskin or your TA over to check your mailing.
 - Send the mail.
8. Turn in this paper, with your name on it, as a grading sheet.
9. Before you leave, check that Dr. Yasskin has received your printout and your email.