Name_____ ID_____ Section_____

MATH 253   Maple Quiz   Spring 2003

Sections 503   P. Yasskin

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2	/25

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. Find the equation of the plane tangent to the graph of the function $f(x,y) = x^2 + y^4$ at the point $(x,y,z) = (2,1,5)$. Plot the function and its tangent plane in one plot using two different colors.

2. Compute the mass and z-component of the center of mass of the solid cone $\sqrt{x^2 + y^2} \le z \le 9$ if the density is $\delta = x^2 + y^2$. (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 503**
   - 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.