Name_____ ID_____ Section_____

MATH 253   Maple Quiz   Spring 2003

Sections 502   P. Yasskin

1	/25
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 point on the ellipsoid $36x^2 + 9y^2 + 4z^2 = 108$ which is closest to the point $(7,5,5)$. Find its distance from $(7,5,5)$.

2. Plot the cardioid $r = 1 + \cos\theta$. Compute the mass and x-component of the center of mass of this region if the density is $\delta = 2 + x$. (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 502**
   - 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.