

Name_____ ID_____ Section_____

MATH 308 Maple Quiz 1 Summer 2003

Sections 301-302 Sample P. Yasskin

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 (DEtools)** :
4. SAVE your worksheet as **yourlastname.mws** NOW and AFTER EACH PROBLEM.
5. NUMBER EACH PROBLEM.

THE EXAM:

Consider the differential equation $\frac{d^2y}{dx^2} + 4\frac{dy}{dx} + 5y = 5\cos(4t)$

1. Find the exact solution satisfying the initial conditions $y(0) = 1$, $y'(0) = 2$. Plot the solution for $0 \leq t \leq 8$, $-2 \leq y \leq 2$. What is $y(5)$?

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 | > 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 301**
 - Call Dr. Yasskin 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 email.