

Math 118 – Week 11 Assignments
Fall Term 2002

Monday November 4: *Class 25*

We will use the technique of first integrals to prove that a solution to an IVP is periodic, without having to derive an explicit formula for the solution.

Reading:

CiC, p. 396-400

Homework: #17 (3 points)

CiC, p. 402-3, # 13,14,15

Due in *Class 26*

Wednesday November 6 *Class 26:*

We will look at examples of nonlinear oscillations, which can usually be obtained from modifications to the linear oscillator model.

Reading:

CiC, p. 394-396

Homework:

Quiz #9: First Integrals

EXTRA CREDIT HOMEWORK #4 (4 points) Due Wednesday November 13

CiC, p. 404-405 #25 and #26

Thursday November 7 Lab #8: Investigating Taylor Polynomials

Friday November 8 *Class 27:*

Moving right along from the lab, we continue our study of Taylor polynomials.

Reading:

CiC, p. 527-538

Homework: #18 (3 points)

CiC, p. 548, # 1,6,10

Due in *Class 28*