4-17-1994

Problem Set 33.

Problem Set 33 is due Wednesday, April 20.

Do problems 3, 6, 10, 12, 13, and 14 on page 446.

- In Problem 10, observe that you can express $\dfrac{dy}{dx}$ in terms of x and y.

Problem Set 34.

Problem Set 34 is due Friday, April 22.

Do problems 1, 4, 9, 13, and 19 on page 456.

- In Problem 19, try plotting the direction field for $\epsilon = 0$ and $\epsilon = 0.1$.

Problem Set 35.

Problem Set 35 is due Monday, April 25.

Do problems 1 and 5 on page 456. Once you've located the critical points, use *Mathematica*'s `PlotVectorField` to sketch the direction field. Set your ranges on x and y so that your picture includes all the critical points.

You can also use the techniques described in the **Runge-Kutta** computer project to actually sketch some solution curves.

"We are what we pretend to be." - Kurt Vonnegut, Jr.