Homework Set 2

Due Friday, August 31

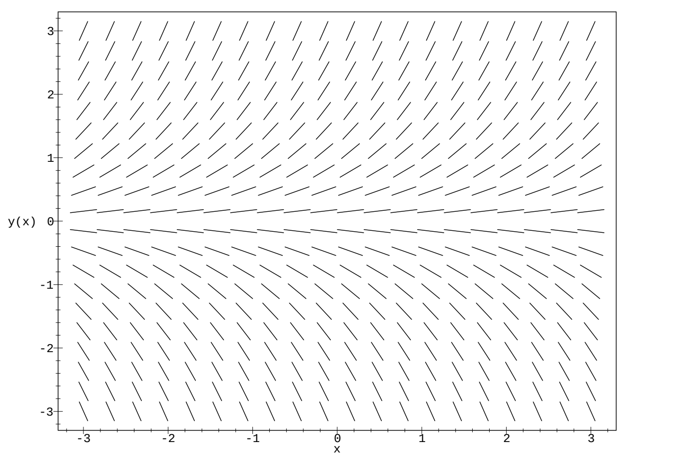
I. Draw the direction field for the differential equations below. Do not use a computer or calculator.

1. $y' = 3y$
2. $y' = 1 - 3y$
3. $y' = 5 + 2y$
4. $y' = e^{-2t} - 3y$
5. $y' = y^2 - 1$
6. $y' = (y-a)(y-b)(y-c)$, where $0 < a < b < c$

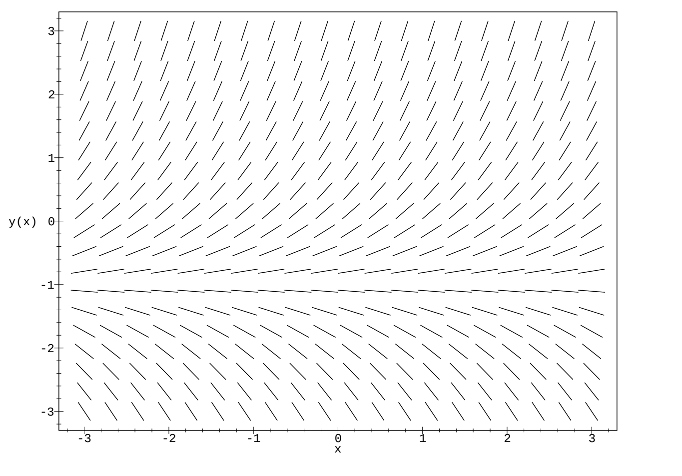
II. Find a differential equation for each direction field on the back of this sheet.

III. In Section 2.1 make sure you know how to do problems like 1-20. You can check your answers in the book. But do turn them in.

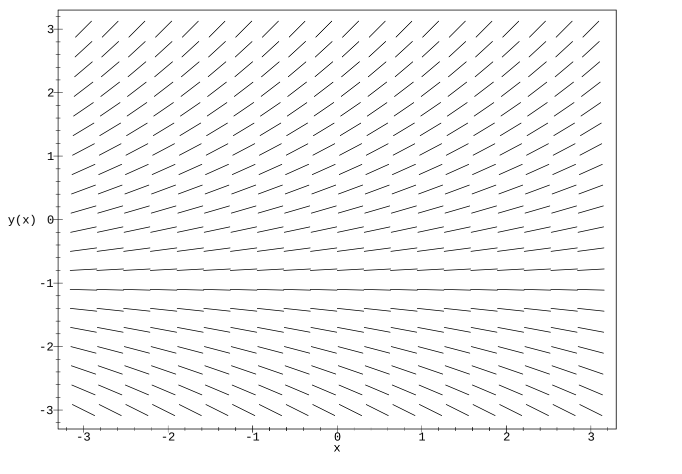
IV. In Section 2.1 do numbers 25 and 36.



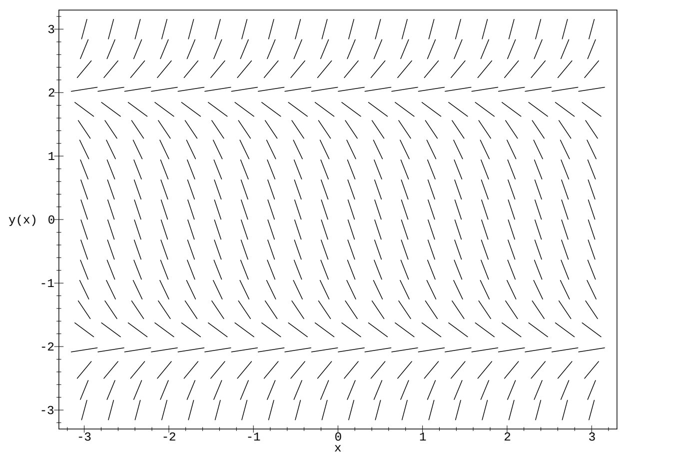
Direction Field 1



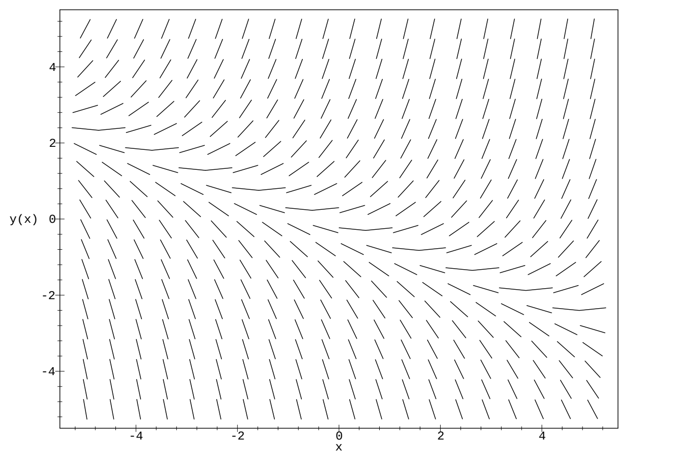
Direction Field 2



Direction Field 3



Direction Field 4



Direction Field 5