Name:	

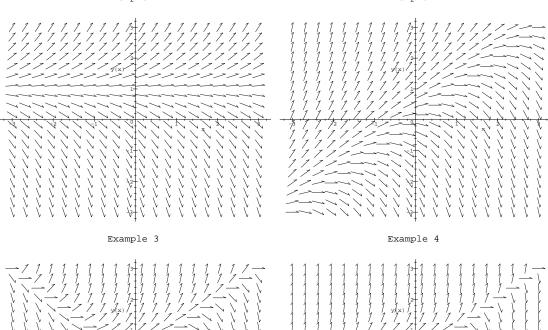
Mathematics 8

Homework Assignment #1 Supplement

- 1-4. Consider the slope fields given below. Match the differential equation with the appropriate slope field, and justify your answers.
- $1. \ dy/dx = y 1$
- 2. $dy/dx = y^3 x^3$
- 3. $dy/dx = y^2 x^2$
- 4. dy/dx = y x

Example 1

Example 2



- 5-8. On each of the slope fields above, sketch the graphs of solutions which satisfy y(0) = 1, y(0) = 0, and y(0) = -1. The units are from -3 to +3 on both x and y axes.
- 9. Draw a slope field for the differential equation dy/dx = x y, and draw a couple of solution curves.