
Math 221 Quiz 2

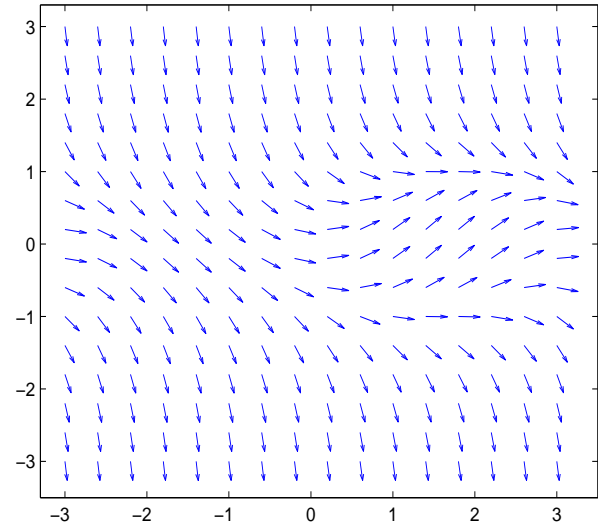
Name: _____

Score: _____

Instructions: You must show supporting work to receive full and partial credits. No text book, notes, formula sheets allowed.

1(5pts) The slope field of an equation $dy/dx = f(x, y)$ is given. Sketch the solutions with the following initial points:

(a) $y(-3) = 3$; (b) $y(-1) = 2$; (c) $y(0) = 2$.



2(5pts) Use the method of separable equations to find the solution to the initial value problem

$$\frac{dy}{dx} + 2xy^2 = 0, \quad y(0) = 1.$$