Quiz1

Name: ____

Section:

For the differential equation $\frac{dy}{dx} = (y - a)(y - b)$ (with a < b), a) Find the equilibrium points.

b) Draw the phase line and find the signs of y' and y'' in each region.

c) Classify the equilibria as stable or unstable.

d) Sketch the solution curves. Each region in the phase line should have a corresponding curve whose starting value for y is in that region.