Quiz 20

Name:		
ranii.		

1. Create a phase line diagram for the differential equation

$$\frac{dy}{dx} = 4y(1-y).$$

The equilibria are $y^* = 0$ and $y^* = 1$. If you pick, say, y = 0.5, the right hand side is positive, so the arrow points towards 1. At y = 1.5 the right hand side is negative, so the arrow points towards 1. For negative y values, the right hand side is negative, so the arrow points away from 0.