

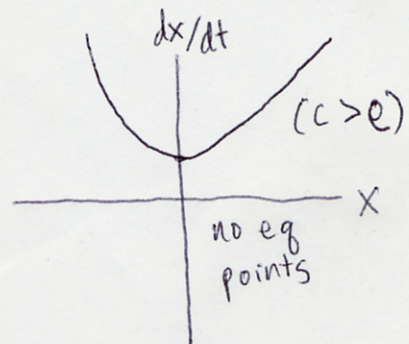
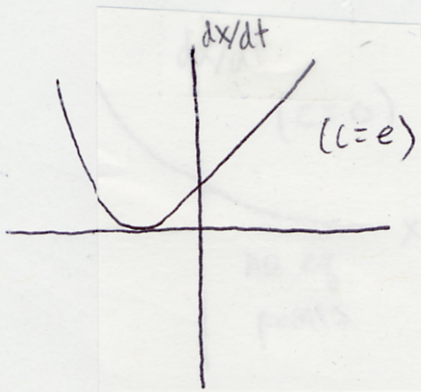
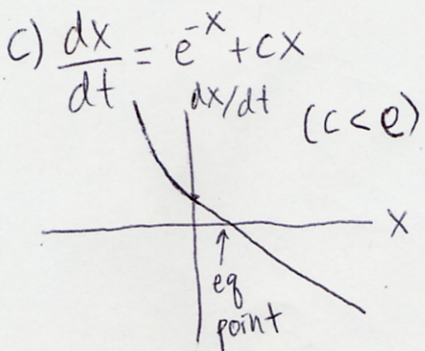
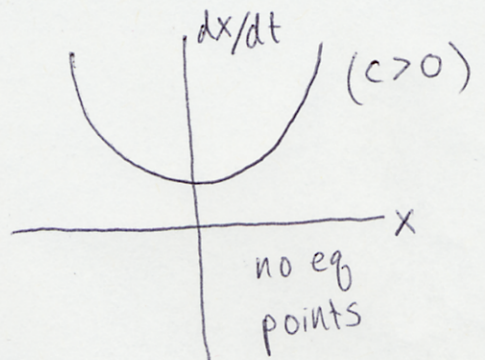
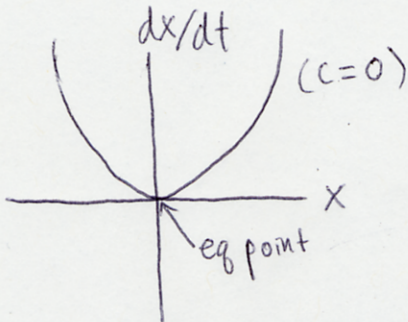
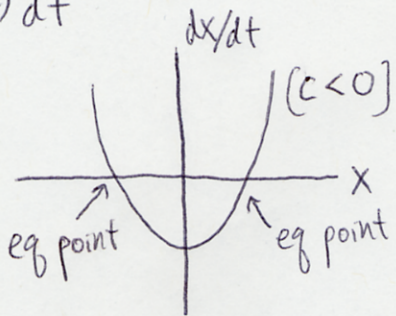
Math 19 - Homework 20

Chapter 26

1. a) $\frac{dx}{dt} = .1x^3 - 3xy \rightarrow$ faster system $\frac{dy}{dt} = .1y - .0001xy \rightarrow$ slower system

c) $\frac{dx}{dt} = .1x - .03xy \rightarrow$ slower system $\frac{dy}{dt} = .1y + .007xy \rightarrow$ faster system

2. a) $\frac{dx}{dt} = 5x^2 + c$



3. Gene expression of temperature sensitive genes, muscle contraction, heart beat cycle, differentiation between neuronal and muscle cells.