Guide to Touro test in chemistry 2.

Dilution problem. % by mass in a solution. Mole fraction. Raoult's Law.

Freezing point and boiling point change. Rate law for second order.

Graphs of concentration vs. time, and Ln vs time, and 1/conc vs time. Identifying reaction order, finding rate constant, using integrated rate law.

Rate constant from half life.

Initial rate problem = determining rate law, rate constant, reaction order.

Effect of temperature change on a rate constant

"Type two" equilibrium problem. ( uses an ice chart)

Finding equilibrium constant from concentrations.

Rate Law from mechanism.

Le Chatelier's principle ( 4 questions)

Problem - Le Chatelier's Principle

Problem - given % of a solute by mass and density, find molality, molarity and mole fraction.

Problem - Given a reaction and its Keq, finding Keq for a reaction derived from that one.

A type 4 problem - given K and initial concentrations, find final concentrations. Problem requires a simplifying assumption.

Finding the reaction quotient, Q, and using to predict in which direction a reaction will go.

A kinetics problem. (easy)