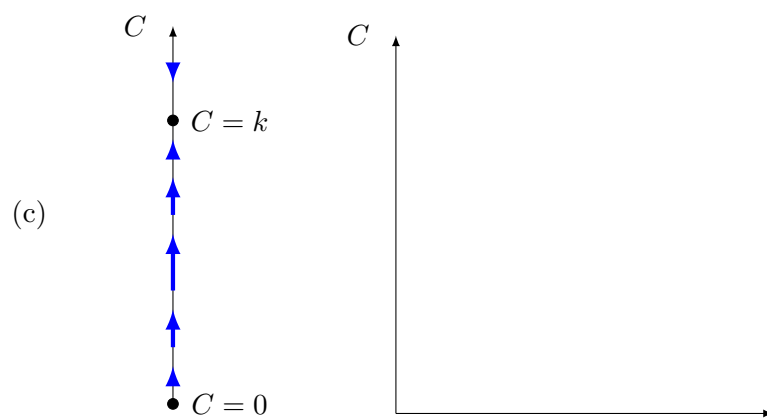
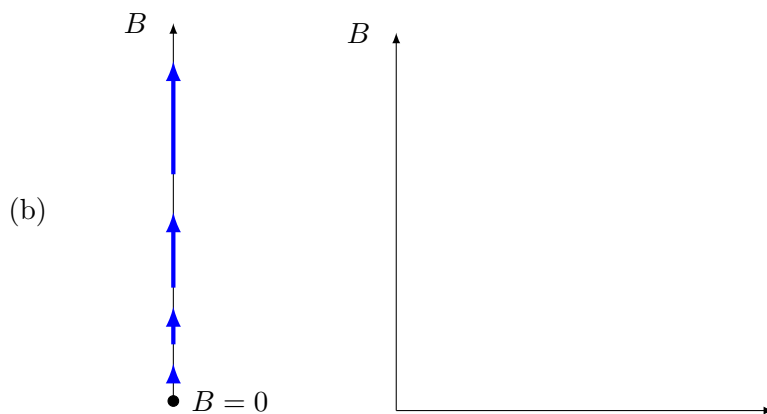
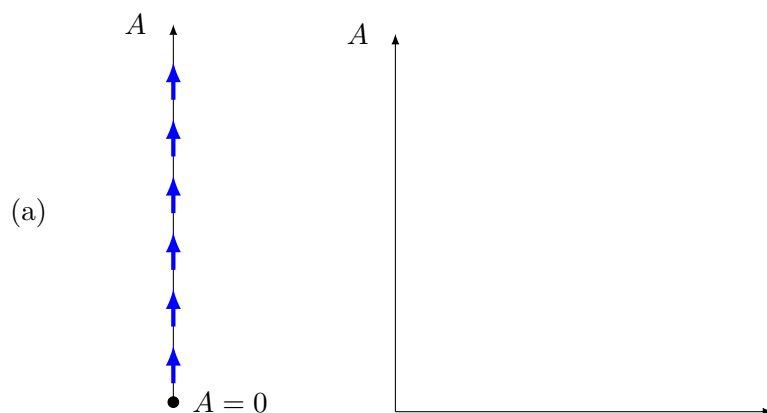
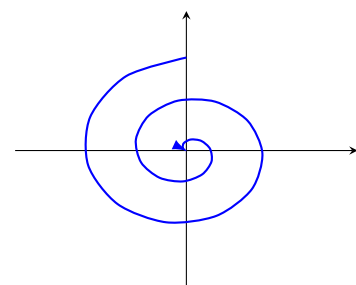
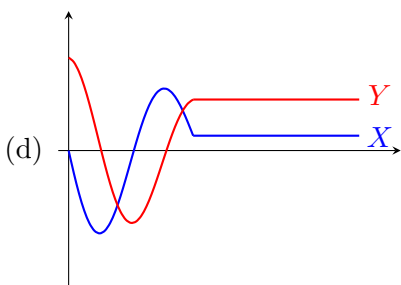
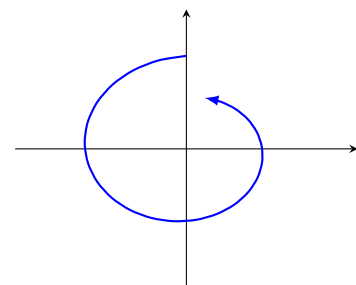
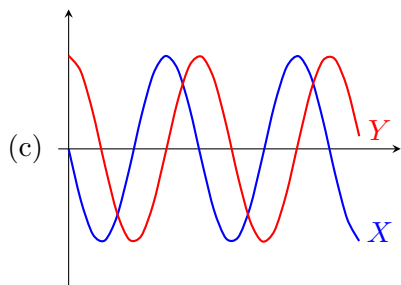
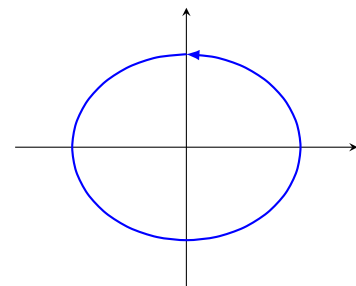
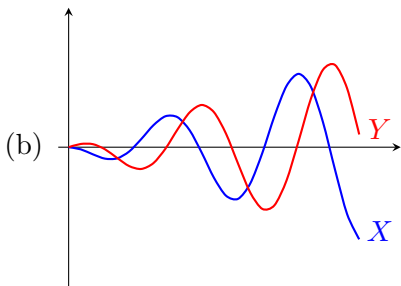
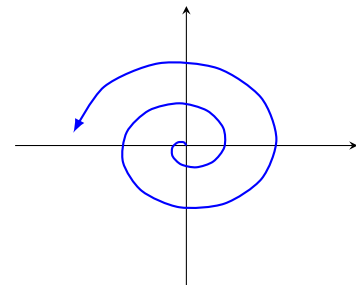
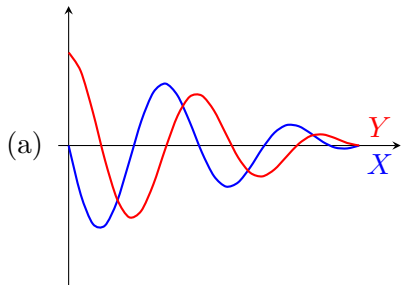


Recitation 8

1. To the left of the 3 sets of axes is the tangent space of a 1-dimensional population system. For each system, choose an initial population, sketch a time series for the population, and write a sentence describing the long term behavior of the population.



2. Match each of the following time series to its associated trajectory.



(e) Which of these plots correspond to the mass spring system without friction? With friction?

3. Sketch the trajectory associated to the following time series.

