

## Updates

1. This is not a homework assignment that I am collecting, since there isn't any time left in the term. However, these are the questions I **would** assign if we had time, so they are indicative of the material I feel is important.
2. Please remember to fill out your online course evaluations at <http://www.udel.edu/udsis-students/courseevaluations.html>.
3. Teacher evaluations may also be given at <http://www.ratemyprofessors.com/ShowRatings.jsp?tid=1621>.
4. The final exam for this course is Tuesday, Dec. 13 from 10:30–12:30 in **GOR 102**.
5. There will be an informal review session on Monday, Dec. 12 from 11:30–1:30 in **PRN 227**.

## Supplemental Study Material

### Section Z10.2.2/11.2(c)

1. Consider the system

$$\dot{\mathbf{x}} = \begin{pmatrix} 4 & -2 \\ 8 & -4 \end{pmatrix} \mathbf{x}.$$

- (a) Find the general solution of this system.
- (b) Sketch the phase plane for the system.
- (c) How do the solutions behave as  $t \rightarrow \infty$ ?

