

Homework must be written neatly in standard English with complete sentences using standard $8\frac{1}{2} \times 11$ paper (no ragged edges) in a style appropriate to the subject. Express yourself clearly and concisely. Careful attention should be given to syntax, punctuation, and correct usage of notation commonly used by professionals in the subject area. Do not write to me. Assume instead that you are writing to other students in the class.

Grading of homework will be based on both mathematical content and writing quality. Answers alone are not sufficient.

Please remember that I do not accept late homework and that homework is due at the **beginning** of class.

Homework Due Friday, September 4

The homework due at the beginning of Friday's class is Section 1.1, Problems 4, 12a, and 16.

Problems 4 and 12a are straightforward.

See Problem 15 for the background and notation in Problem 16. In each part, set up the appropriate mathematical model and then give a **qualitative** analysis. (You need to read Section 1.1 to find out what that means.) Do not try to solve the model analytically! Explain *carefully* what you're doing. Be sure to include appropriate graphs.

Please see me if you have questions.