Part I: (due at the beginning of class Wednesday, March 20)

Read the purple Introduction to Series handout.

Reading Questions

1. Examples 1 and 2 on the Introduction to Series handout.

Remember that what you turn in for Part I should have 3 parts, as mentioned in the syllabus:

(a) Your responses to the reading questions.

(b) Your own questions/comments on the reading/anything else we've been doing in class.

(c) The amount of time you spent on Part I (including the time spent reading/watching).

Part II: Exercises (prepare for class Wednesday, March 20)

Examples 3 and 4 on the purple Introduction to Series handout.

Part III: Homework Problems (due Wednesday, March 20 at the beginning of class)

1. In each part, give an explained example of a **non-constant** sequence that meets the criteria given or explain why such an example is impossible to give.

   (a) a sequence that's bounded above by 1 and below by -1 that converges to 0

   (b) a sequence that's bounded above by 1 and below by -1 that converges to -1

   (c) a bounded sequence that is not monotone

   (d) a decreasing sequence that does not converge

   (e) an increasing sequence that is bounded above but does not converge