Review your Chapter 11 quizzes and homework! You are required to memorize/be able to do the following:

(11.1) All theorems about sequences

Problems: 23, 42, 46

(11.2) Test for Divergence (don't use this to prove convergence!)
(11.2) Geometric Series is convergent iff |r|<1. Know how to compute the sum of convergent geometric series
(11.2) Telescoping Series (from partial fraction decomposition)

Review example 7 on p. 691
Problems: Determine sum of #8
30, 34, 32

(11.3) The p-series is convergent if p>1.
E.g. the harmonic series (p=1) is divergent. The series with p=2 is convergent.
(11.3) The Integral Test
(11.4) The Comparison Test/ the Limit Comparison Test
(11.5) The Alternating Series Test
(11.6) The Ratio Test, the Root Test
(11.7) Read "Strategy for Testing Series" if you have time
(11.8) Know how to use the ratio test/ the root test (from 11.6) to calculate the radius of convergence (R) and interval of convergence (I) of a power series.
(11.9) Know how to use facts about the geometric series (from 11.2) and integration/derivation formulas to compute a power series representation for a function and determine the interval of convergence.

Problems: 20, 32, 48

(11.10) Know how to calculate the Taylor series of a function at a. Know how to use Table I (don't memorize-Table I will be given to you during the test) to calculate the Taylor series of a function.