

Turn in starred problems, and only those, Wednesday 09/12/2012.

**Multiple-page homework must be STAPLED when handed in.**

Section 4.2:

- 1 (a), (d), \*(e), (g), \*(k)
- 2 (b), (d), \*(e)
- 7 (a), \*(f), (i), (j)

Exercises from the *Notes on Power Series* posted on the web page:

- 2 (a), (b), (c), (d), \*(e), (f), \*(i)
- 3 (b)

**Hints and remarks:** For the problems of 4.2.1 I find it best to use the ratio or root test directly to determine for what values of  $x$  the series converges, rather than use the formulas (7a) or (7b). These work but some care is needed; for some problems you will need to use the trick of Example 4.