Homework #2, due April 18, 2002

- Ch.1, sec.4, p.18: 10, 11, 17, 19.
- Ch.1, sec.5, p.23: 2, 8*.
- Ch.2, sec.1, p.30: 3, 4*, 6, 9*.
- Ch.2, sec.2, p.36: 6, 7.

Note. The problems marked with an asterisk are not required.

**x-hour**: April 17; student presentation; topic:

- Show that the Fourier transform of the circle $S^1 = \partial \mathbb{D}$ (as discussed on p.21-22, Conway) is an isomorphism between $L^2(S^1)$ and $l^2(\mathbb{Z})$;

No office hour on Monday, April 15.