

Name: \_\_\_\_\_

# Math 378 Spring 2011

## Assignment 5

To Hand In:

Brualdi Ch. 7: 1\*, 2, 3\*, 8<sup>†</sup>, 9<sup>†</sup>, 10, 13, 14, 16, 17, 22, 24 (a, d), 26, 32, 33, 37, 39, 52(b)

\*Do a and b only.

<sup>†</sup>Just find and verify the recurrence, do not solve or derive a formula for  $h_n$ .

### Extra Problems

1. Find the generating function for the nonnegative integral solutions to

$$3e_1 + 7e_2 + 3e_3 + 5e_4 = n.$$