HOMEWORK 3 (18.314, FALL 2006)

1. How many (up to isomorphism) connected graphs on n vertices have score $(3, 3, 2, 2, \ldots, 2)$?

2. Problem 3.3.5 (p. 116) from the book (MN).

3. a) Problem 3.1.2 part a), from MN (p. 104).
b) Problem 3.3.13 (p. 117)

4. Problem 3.2.11 (p. 112)

5. Problem 3.3.9 (p. 116)

6. Problem 3.3.16 (p. 117)

7. Find two non-isomorphic connected 3-regular graphs. (Make sure to *prove* that they are non-isomorphic!)

8. Problem 3.1.7 (p. 105) from MN. (Let's see who gets the largest number.. - IP)

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This Homework is due Wednesday October 4 at 14:05 am.