

## 18.04 PROBLEM SET #1:

PLEASE: Staple your answers!

The suggested problems (from the book) are ones that you should look and make sure you know how to do them. These are not problems to be handed in.

### PROBLEMS FROM THE BOOK:

Sec. 1.1: 15, 24.

Suggested: 6--10, 16, 18, 19, 25 and 29 (specially 29).

Sec. 1.2: 5, 8.

Suggested: 7df, 9 and 17 (specially 17).

Sec. 1.3: 2, 11, 17.

Suggested: 5d, 7eg, 8, 9 (can you think an "easy" way to do 5d?).

Sec. 1.4: 5, 13, 16.

Suggested: 8, 9, 12, 14, 15, 19, 20.

Sec. 1.5: 2.

Suggested: 5a, 5b, 10, 11, 12.

Sec. 2.1: 4, 8, 9.

Suggested: 1bd, 3bc, 5, 6.

### OTHER PROBLEM

1.1) Express  $\cos(3\theta)$  in terms of  $\cos(\theta)$  using DeMoivre's formula.