PROBLEM SET #4:

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. 4.2: 10 14b

Suggested: 3b 7 8 9 11 14a 14c 16 17

Sec. 4.3: 2 7

Suggested: 1a 1e 1h 4 5 6 11

OTHER PROBLEMS

4.1) Find all the branch points for the following function and chose branch cuts to make it single valued:

$f(z) = \log(1 - \text{sqrt}(z))$.

4.2)

Find all the branch points for the following function and chose branch cuts to make it single valued:

$f(z) = \log(\log(z))$.