

**Math 121A Spring 2007**

**Homework#10** Evaluation of definite integrals by use of the residue theorem.

1. Evaluate the integral  $\int_{-\infty}^{\infty} \frac{\sin(x)}{x} dx$ . (You can look at the book page 690).
2. Page 699 of the M.L. Boas book. Problems: 1, 3, 6, 10, 11, 12, 13, 15, 17, 19, 20.

• **Remarks**

- You are very much encouraged to work with other students. However, submit your work alone.
- I will be happy to help you with the homeworks. Please visit me if you want to work with me.

**Good luck!**