Math 303, Fall 2008
Assignment for Jan. 01-07

Reading Assignment: Read pages 845-862 of the textbook (Riley, Hobson, & Bence, 3rd Edition)

Homework 2 (Due on Thursday, January 08, 14:00):

1. Evaluate the following contour integrals along the circle (C) defined by $|z| = 3$.

$$\oint_C \frac{e^{3z}}{z - \ln 2} \, dz,$$

$$\oint_C \frac{e^{3z}}{(z - \ln 2)^2} \, dz,$$

$$\oint_C \frac{e^{3z}}{(z - \ln 2)^3} \, dz.$$

2. Solve Problems **24.5, 24.6 (parts a, b, d), and 24.13** on Pages 867-868 of the textbook.