Homework Set 1: Math 8610, Due: Friday, Sept. 7

1. Show relation (4.26) from week 1 notes, page 6.

2. Exercise on page 7, week 1 notes.

3. Justify rigorously the derivation of (1.18) in week 2 notes for a smooth sufficiently decaying vorticity field.

4. First exercise on page 6, week 2 notes.

5. Second exercise on page 6, week 2 notes.