

Homework 3 PY501 (Fall 2012)

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Reading: Read chapter from Bender and Orzag

Problems: Due Wednesday October 23.

1. Show that

$$\int_0^\infty \frac{\cos px}{\cosh x} dx = \frac{\pi}{2 \cosh(p\pi/2)} \quad |p| < 1.$$

2. Bender and Orzag 6. 18

3. Bender and Orzag 6.26

4. Bender and Orzag 6.42

5. Bender and Orzag 6.56

6. Bender and Orzag 6.77