

MATH 4000/6000

ASSIGNMENT #15

DUE 4:00 pm **Tue.** Dec. 8, 2009.

Always justify your answers, even if the question does not explicitly say so. Write your own solutions, independently of anyone else.

Core Problems:

I. Sec. 2.5 # 2, 5, 6, 7, 10 ac.

II. Sec. 2.5 # 15 (Do **not** use the classification of isometries of \mathbb{C} .)

Advanced Problem: Due **Wed. Dec. 16** (at the beginning of the final exam). Students registered for 6000 must turn these problems in. They count for extra credit for 4000 students, but anyone hoping to get an 'A' in 4000 should do a reasonable number of advanced problems. Please hand in Advanced Problems separately from Core Problems.

III. Sec. 2.5 # 17 (Do **not** use the classification of isometries of \mathbb{C} .)