

Fall, 2011

MATH 3500(H)
PROBLEM SET #13

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DUE Wednesday, November 16, 2011.

Problems to work but not hand in:

§5.2: #3, 6.

§5.3: #1a,g,i, 6c.

Problems to turn in:

WeBWork Homework 13

§5.2: #8 (4), 10 (4), 14 (4).

N.B. For full credit, be sure to justify existence of a global maximum or minimum. You will either have to resort to the technique of Example 5 or refer to (or state an appropriate generalization of) the appropriate homework problem when the obvious domain is non-compact.

§5.3: #2 (3), 4 (3), 5 (2).

Challenge problems (Turn in separately):

§5.2: #11 (4), 15* (5).

§5.3: #8 (3).

*This is one of my all-time favorites.