

Fall, 2009

MATH 3500(H)
PROBLEM SET #14

T. Shifrin

DUE Friday, December 4, 2009.

Problems to work but not hand in:

§5.4: #2, 13, 15, 25, 26a, 29a, 30a.

§5.5: #1b, 4, 7a, 12c, 13.

Problems to turn in:

WeBWork Homework 14 (due Sunday, December 6, 11 pm)

§5.4: #10 (4), 12 (3), 17* (3), 23 (3), 28[†] (4).

§5.5: #3 (4), 10 (3), 11 (3).

Challenge problems (Turn in separately):

Required for all potential or declared economics/finance majors: §5.4, #33 (3).

§5.4: #31 (5), 32 (5), 34 (4).

§5.5: #17 (3), 18 (4).

*No compactness justifications required.

[†]The relevance of the reference to Exercise 1.2.14 is that you should think about angles inscribed in circles. What condition on angles is necessary and sufficient for a quadrilateral to be inscribed in a circle? Why?