## MATH 402 Homework 1

## Due Friday 2/2/18

From Hvidsten's Geometry (with Geometry Explorer):
(1) (10 pts.) Solve 2.1.1 and 2.1.2
(2) (5 pts.) Exercise 2.1.4
(3) (10 pts.) Solve Exercise 2.1.7
(4) (10 pts.) Solve Exercise 2.1.10
(5) (15 pts.) For the following exercise, you may use any of Propositions 1-34 in Euclid's Elements Book 1: A rhombus is a four sided figure whose sides are all equal. Show that the diagonals meet at right angles and that the four small triangles are congruent to each other. (Hint: SAS and SSS may be helpful.)

