MATH 3440 Homework 2   Due date: September 5 (Wednesday)

(1) (15 pts) Use GeoGebra to construct the following objects.
   (a) the perpendicular bisector of a segment
   (b) the angle bisector of an angle. (Please hide those unnecessary lines.)
   (c) a linear pair of angles.

(2) (15 pts) Problem 2 in Problem Set 1.1 (on page 14)

(3) (20 pts) Problem 3 in Problem Set 1.1 (on page 15)

(4) (15 pts) Problem 1 in Problem Set 1.2 (on page 37)

(5) (15 pts) Prove the following theorem. Complementary of congruent angles are congruent.

(6) (20 pts) Find the measures of the four remaining angles in the below figure. Show how you found them. Justify your answer.
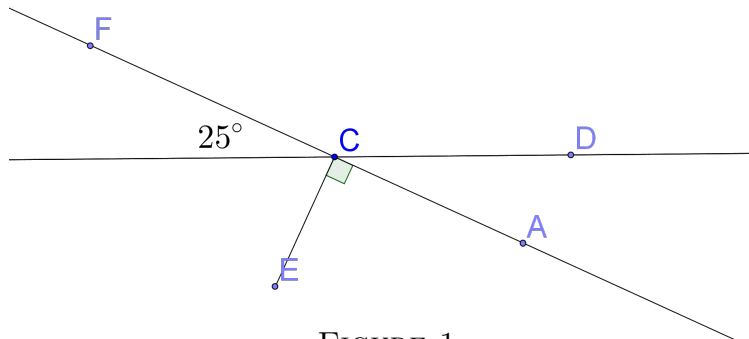

FIGURE 1