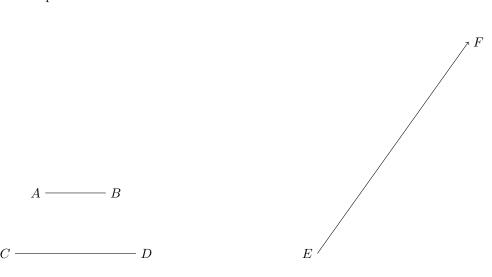
MTH 202 - Quiz 3

25 September 2015

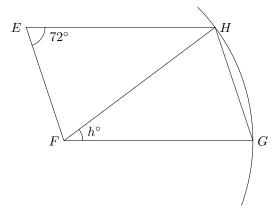
20 September 2010
Name:
No calculators or other electronic devices are allowed on this quiz. If you need more space to solve a problem, use the back of the paper.
1. (2+2+1=5 points) (a) Draw a figure with exactly 4 lines of symmetry.
(b) Draw a figure with rotational symmetry of order 5.
(c) Draw a parallelogram which is not a rhombus.

- 2. (10 points) You are given two segments $(\overline{AB} \text{ and } \overline{CD})$ and a ray (\overline{EF}) . Use a compass and straightedge to draw an isosceles triangle so that:
 - (1) the base lies on the ray \overrightarrow{EF} ,
 - (2) the base has length AB, and
 - (3) the other two sides have length CD.

Clearly indicate each step used in the construction.



- 3. (5+5=10 points) Give complete Teacher's Solutions to the following problems, justifying all steps and carefully organizing your solution.
 - (a) You are given that EFGH is a parallelogram, and that G and H lie on a circle with center O (only part of the circle is shown). Find h.



(b) Set up an equation for x, and solve it. Include a full Teacher's Solution: That is, justify each step in your work.

