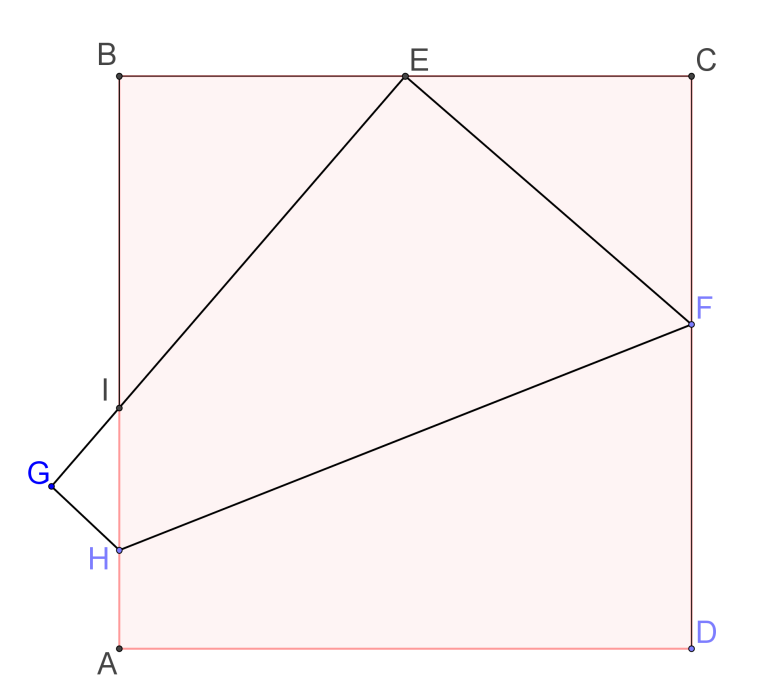
**Simple Origami Problem**

You are given a square paper of sides 24.

E is the mid-point of BC.

The piece of paper is folded so that the point D coincides with point E.

HF is the line of folding and point A goes to point G.

By considering the ΔCEF, find all line segments in the diagram.

**Solution**

Let

By Pythagoras Theorem,

Note that

Hence

Hence,

Let

Also,

Hence,

Also,

By Pythagoras Theorem,

**Yue Kwok Choy**

**13/7/2016**