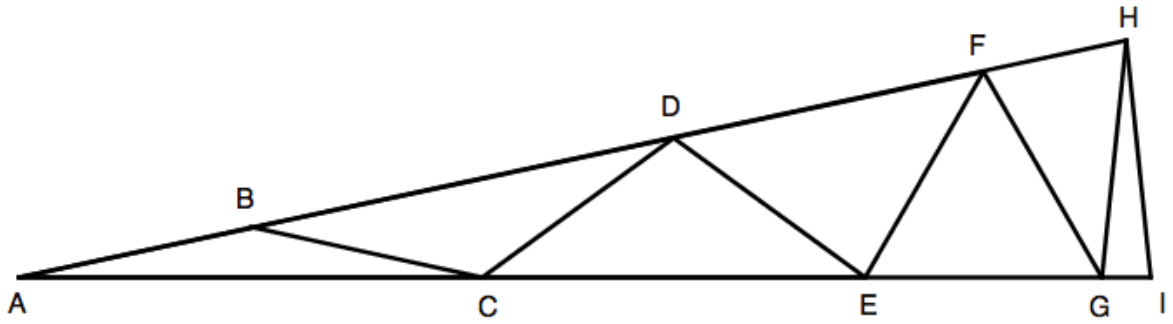
Isosceles Seven

AHI is an isosceles triangle:



Within the triangle are seven other isosceles triangles:
ABC, BCD, CDE, DEF, EFG, FGH, GHI.

The eight line segments AB, BC, CD, DE, EF, FG, GH, HI are equal in length.

Calculate the three angles of the isosceles triangle AHI.

Extension:

Can you construct similar isosceles triangles, made up of a number of smaller isosceles triangles, in which the angles are all whole numbers?

If the isosceles triangle is composed of n isosceles triangles, and angle $BAC = x$, what are the values of the other angles of the triangle?