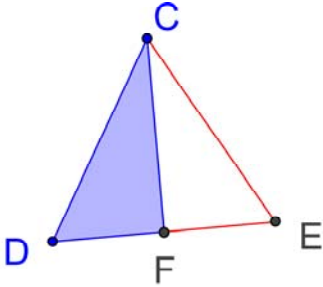


Irrational Side-Splitter Motivation



DFC is half of an equilateral triangle.
 DC, CD, FD are congruent to BH, HI, IJ respectively.
 The construction will divide segment AB into segments that will create a similar triangle, i.e. is cut in the proportions of the sides of the triangle, which clearly is not a rational ratio.

