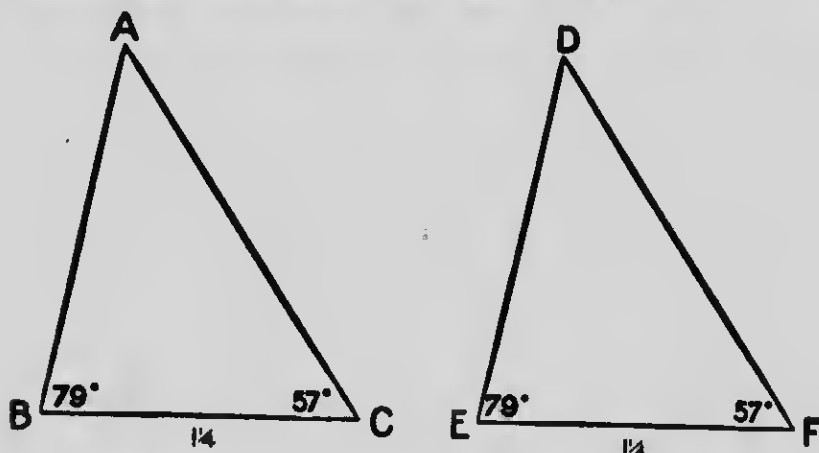


5. Construct two triangles, ABC , DEF , each with base $1\frac{1}{4}$ inch, and angles at the base 79° and 57° .



It follows, from 4, that the remaining angles at A and D are equal, each being 44° . Putting the points of the dividers on A and B , and carrying the dividers, so adjusted, to DE , compare the magnitudes of AB and DE . In like manner compare the magnitudes of AC and DF .

Next, cutting one of the triangles from the paper, place it upon the other. From this superposition what conclusion do you draw as to the areas of the triangles?

Repeat the same construction, measurement, and superposition with the following triangles:

Two whose bases are $1\frac{3}{4}$ in., and angles adjacent to base 38° and 110° .

Two whose bases are 90 millimetres, and angles adjacent to base 89° and 57° .

Two whose bases are $3\frac{1}{2}$ in., and angles adjacent to the base 49° and 95° .

.....