problem corner | by Dave Lindell and Benjamin Bloch

Problem 172
by Dave Lindell, L.S.

The circle is inscribed in triangle A-B-C.
What is the length of side BC?

622.118'

R=147.288'

528.390'
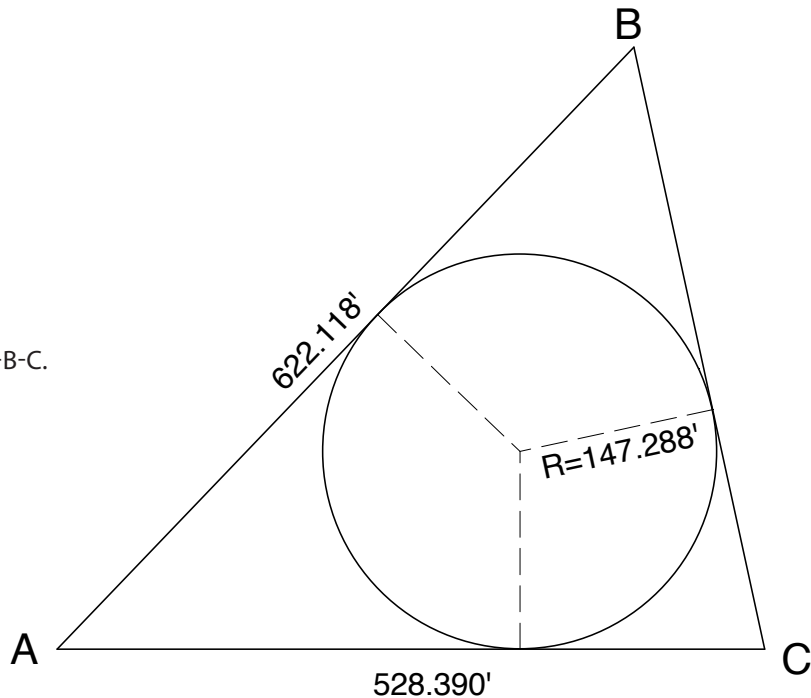
Problem 173
by Benjamin Bloch, Ph.D.

a) Apply SDQ to the Fibonacci Series (discussed in Problem 171).

b) What pattern is evident?

c) What secondary pattern do you notice?

Problem 171 reference

Fibonacci Series

There are growth patterns in nature that can be exhibited mathematically by the Fibonacci Series, a recursive sequence where each term or number is the sum of its two preceding numbers. Consider the Fibonacci Series based on the two numbers 1 and 1. Thus: 1, 1, 2, 3, 5, 8, 13, etc. The third number, 2, is the sum of the two preceding numbers 1 and 1. The fourth number, 3, is the sum of the two preceding numbers 1 and 2.

Solutions are on our website at *www.profsurv.com*