**Problem 202**

by Dave Lindell, L.S.

The two circles are tangent to the lines AB and AC or the prolongation thereof. Line BC is tangent to both circles. How long is it?

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A

B

C
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**Problem 203**

by Benjamin Bloch, Ph.D.

**SDQ and Fibonacci Cubes**

Here you will repeat Problem # 201, but now applied to the cube of each of the regular Fibonacci series terms.

a) Write the first 14 terms of the cube of each Fibonacci number.

b) What is the significance of, say, the 13th term divided by its preceding term? By its following term?

c) Now write the SDQ of each of these Fibonacci Cube numbers.

d) Does this yield a repeating series as did the SDQ of the Regular Fibonacci numbers?

e) If so, what is this repeating series?

f) What stands out in the number of different digits in the SDQ Fibonacci Cube series?