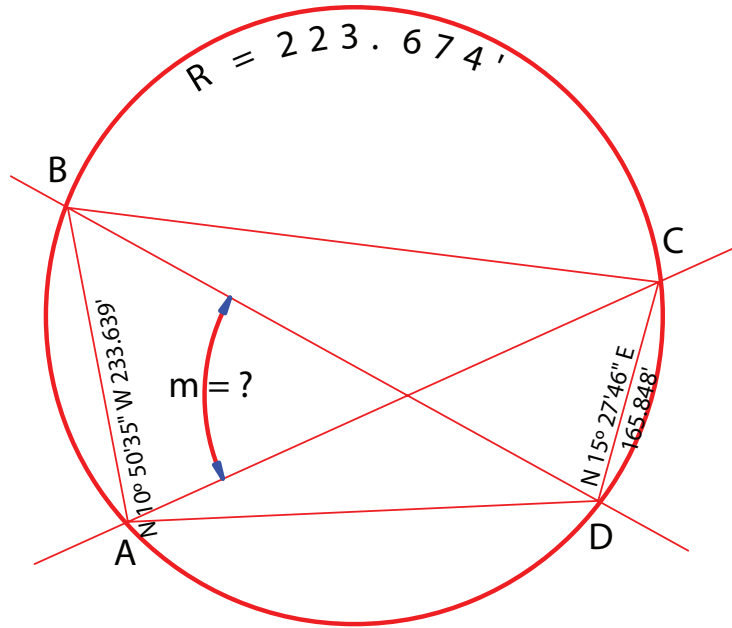


Problem
146

by Dave Lindell, L.S.



Given the cyclic quadrilateral A-B-C-D inscribed in the circle of radius 223.674, what is angle m ?

Problem
147

by Benjamin Bloch, Ph.D.

SDQ MULTIPLICATION TABLE

	1	2	3	4	5	6	7	8	9		
1	1	2	3	4	5	6	7	8	9		
2	2	4	6	8							
3	3	6	9								
4	4	8									
5	5										
6	6										
7	7										
8	8										
9	9										

- Fill in the empty cells of this special multiplication table of SDQ* values, thereby obtaining an SDQ multiplication table.
- What are the fewest number of rows and columns required for a minimum SDQ multiplication table?
- In the Minimum SDQ Multiplication Table shade each 3, 6 and 9 row and column. What SDQ patterns can you find in *each* of the 2x2 unshaded groups of cells?
- What is the SDQ of the entire Minimum SDQ Multiplication table?

*For a discussion of SDQ, see any previous odd-numbered Problem Corner since February.

Solutions are on our website at www.profsurv.com