

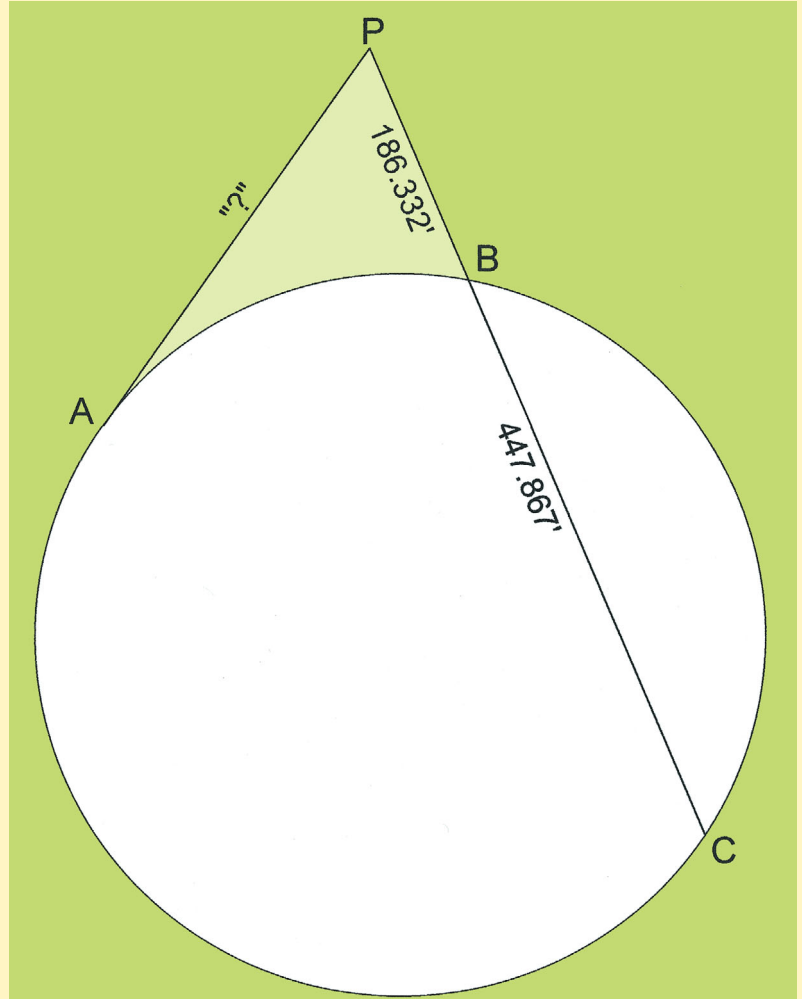


THE PROBLEM CORNER

Introducing “The Problem Corner”—a new monthly column designed to challenge and sharpen your analytical skills by way of trigonometry.

The Problem Corner is created by Dave Lindell, a retired California surveyor. Dave spent more than 36 years at the City of Los Angeles Bureau of Engineering, 18 of which he served as Survey Supervisor. He is a former Los Angeles Community College District instructor of surveying, an expert examiner and technical expert for the State of California Board of Registration for Professional Engineers and Land Surveyors, and has been licensed since 1972. Dave has submitted problems for the California licensing test. He now offers consulting services to local cities and does an occasional survey “to keep busy and stay out of trouble.”

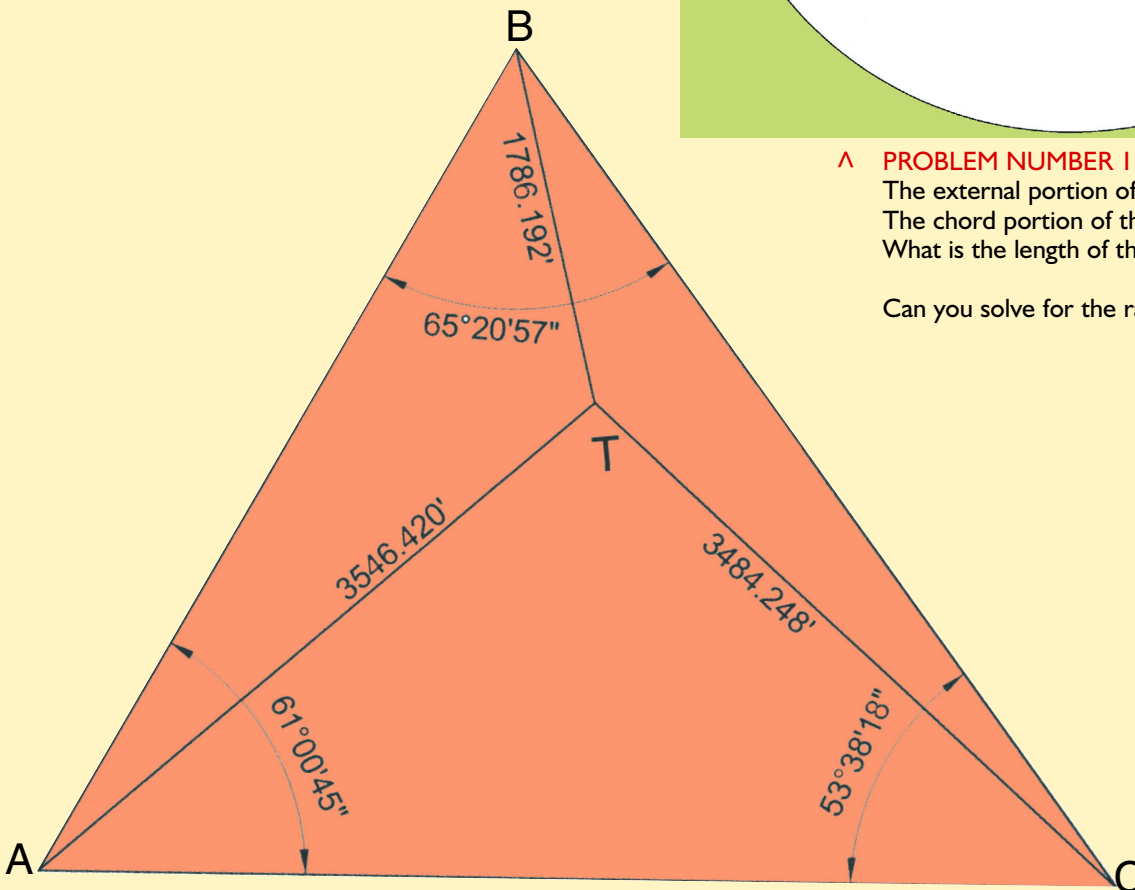
One of the trigonometry problems is fairly simple, the other more difficult. Solutions will be published in the next issue. (Note: Since this is a combined July/August issue, watch for the solution in the September issue!)



▲ PROBLEM NUMBER 1

The external portion of a secant line, PB, is 186.332'. The chord portion of the secant, BC, is 447.867'. What is the length of the tangent, PA?

Can you solve for the radius?



< PROBLEM NUMBER 2

While Fred and Tom measured the angles at the vertices A, B, AND C, John took the E.D.M. to a convenient spot and measured the distances only to the same vertices.

Can you calculate the sides of the triangle?