DR. RICHARD L. ELGIN / PLS, PE

test
yourself

PROVE IT: Geometry v. Trigonometry

In geometry, a theorem says: For two intersecting chords, the product of the lengths of the two segments of one chord is equal to the product of the lengths of the two segments of the other chord. Or, for the figure, (AX)(BX)=(CX)(DX). Ok, you geometry and horizontal circular curve buffs, prove it, each in your own way. ■

For the solution to this problem (and much more), please visit our website at: *www.amerisurv.com*. Good luck!

Dr. Richard Elgin is semiretired, working part-time for Archer-Elgin Surveying and Engineering, LLC in Rolla, Missouri. He also is an Adjunct Professor of Civil Engineering at Missouri University of Science and Technology. Dick is a practitioner, professor, researcher and author.