

Test Yourself



By **Richard L. Elgin, PhD, LS, PE**


Dr. Richard Elgin is President of Elgin Surveying & Engineering in Rolla, Missouri. He serves as Adjunct Professor of Surveying at the University of Missouri-Rolla (UMR), and is a principal in the firm of Elgin, Knowles & Senne, Inc.

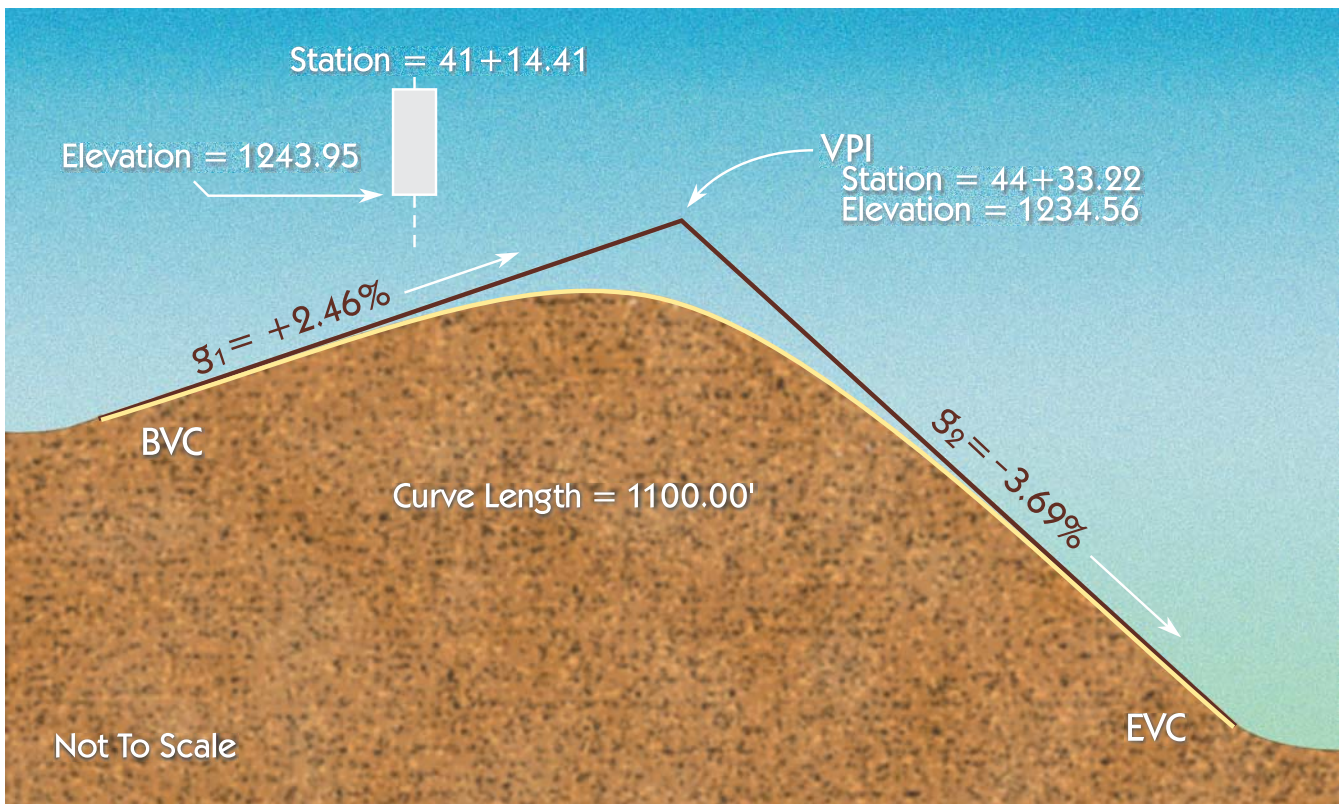
Vertical Curve

For a proposed vertical curve, the VPI station is 44+33.22 and the elevation of that point is 1234.56 feet. (The elevation of the VPI is 1234.56, the vertical curve itself “opposite” the VPI is not that elevation.) The grade entering the curve

(g_1) at the BVC (Begin Vertical Curve) is +2.46%. The grade leaving the curve (g_2) is -3.69%. The vertical curve length is 1100.00 feet. At station 41+14.41, there is an overhead obstruction whose elevation is 1243.95. For this route, the minimum allowable clearance, pavement to obstruction, is 19'4". Will that mini-

imum clearance distance requirement be met? What is the station and elevation of the vertical curve's high point?

For the solution to this problem visit our website at: www.TheAmericanSurveyor.com. Good luck! 



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