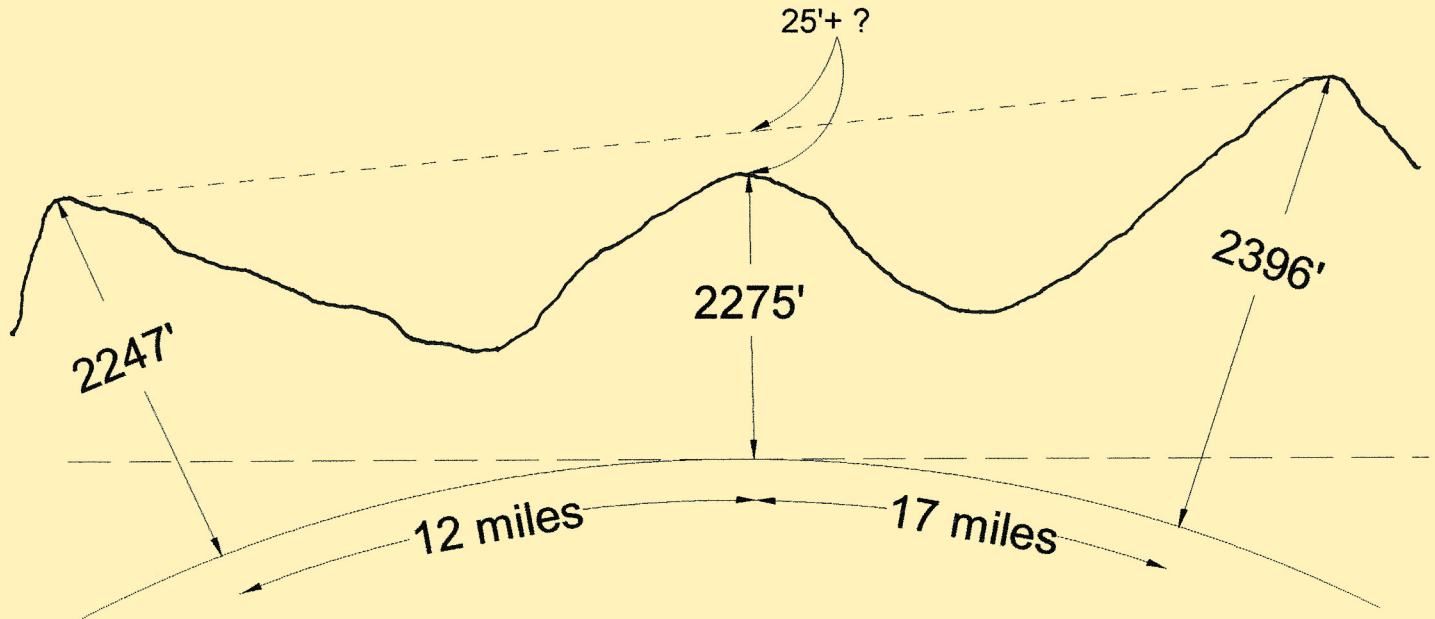




THE PROBLEM CORNER

This month's trigonometry challenges involve ascertaining clearance on a mountain elevation set-up, and determining a vertical curve.



Problem Number 7

Will a set-up on a mountain at elevation 2247 ft. have 25 ft. or more clearance over a mountain on line with an elevation of 2275 ft. if the sight is to a point at elevation 2396 ft. that is 29 miles away?

Problem Number 8

Point "A" on grade 1 is at station 7+00 and elevation 98.00'
 Point "B" on grade 2 is at station 14+00 and elevation 88.00'
 The elevation of the top of a pipe at station 9+20 is 76.40'
 What is the longest vertical curve that will pass 6' over the pipe?

