

Test 2

Q.1 The bearing of three lines are as follows: PQ=N21°45'E, QS=N80°30'E, SQ=S32°45'E

Find radius of a curve tangential to the three lines. Length QS=450 m. Also find tangent lengths.

Q.2. Tacheometric observations were carried out assuming that a staff of 3.5 m was vertical.

$K=100$, $C=0$, vertical angle= 12^0 , staff intercept=0.685 m. After measurements, staff was out of plumb by 100 mm in backward direction. Compute the error in horizontal distance.

Q.3. What is grade contour? Explain method of laying down grade contour using angle measuring device in field.
