

Given the sketch as shown on page 2, and the additional information included here, please answer the questions listed below.

FOR FULL CREDIT...

You must submit a complete documentation of all calculations.

Please show... All formulae used
 Any necessary algebraic rearrangement of formulae
 Substitution of known values into formulae, and finally...
 The ANSWERS.

GIVENS:

- CURVE #1 - RADIUS = 358.42'
 - LONG CHORD = 97.02'
- CURVE #2 - DEGREE OF CURVATURE
 BY THE ARC DEFINITION = 29.307° (DD°)
- CURVE #3 - TANGENT = 147.37'
 - LONG CHORD = 231.92'
- CURVE #4 - DEGREE OF CURVATURE
 BY THE CHORD DEFINITION = 28°51'44"
 - LONG CHORD BEARING = S 22°55'46" E

FINDS:

- CURVE #1 - MIDDLE ORDINATE = _____
 - LONG CHORD BEARING = _____
 - PT STATION = _____
- CURVE #2 - EXTERNAL SECANT = _____
 - LONG CHORD BEARING = _____
 - DEGREE OF CURVATURE
 BY THE CHORD DEFINITION = _____
- CURVE #3 - BEARING OF FORWARD TANGENT = _____
 - LONG CHORD BEARING = _____
 - PC STATION = _____
- CURVE #4 - MIDDLE ORDINATE = _____
 - LONG CHORD LENGTH = _____
 - END OF ROAD STATION = _____