Compute and tabulate the half station elevations for the unequal tangent vertical curves shown below. Determine the point of 0% slope for each of the problems and include that station and elevation in your table. Also include a column with %grade.

1.   A +2.200% grade meets a –3.450% grade. The PVC station is 42+50.00 with an elevation of 476.00'. The total length of the curve system is 400.00'. The PVI station is 44+00.00.

2.   G1 = –3.150%, G2 = +2.850%, PVC Station = 16+15.00, PVC Elevation = 5280.00', Total Length = 870.00', PVI Station = 19+90.00.