Compute and tabulate the full 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 +4.5% grade meets a –1.5% grade at station 50+00 and elevation 1200.00'. The length of the first curve needs to be 600 feet and the length of the second curve needs to be 400 feet.

2. G1 = +1.25%, G2 = +4.75%, PVI Station = 72+00, PVI Elevation = 1300.00', L1 = 800 feet and L2 = 400 feet.

3. A +4.5% grade intersects a –2.5% grade at station 24+00 and elevation 822.24'. Curve 1 is 400 feet long and Curve 2 is 600 feet long.