1. Calculate the elevation of each station of a vertical curve (and find the second differences) where:

the station of the PVC is 22+50.00 the station of the PVT is 27+50.00 the grade from the PVC to the PVI is +6.75% the grade from the PVI to the PVT is +1.00% the elevation of the PVI is 123.96 feet and the distance between stations is 50.00 feet. Also, draw this curve at an appropriate scale.

2. Calculate the elevation of each station of a vertical curve (and find the second differences) where:

the length is 900.00 feet the elevation at the PVC is 321.06 feet the elevation at the PVI is 315.66 feet the elevation at the PVT is 300.66 feet the station of the PVC is 42+00.00 and the distance between stations is 100.00 feet. Also, draw this curve at an appropriate scale.