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.
