Solutions #8

Dear CVG 2171 students,

Below are the solutions to the last assignment. You may contact your TA, if anymore explanation is needed.

1-

BVC Station = 2+85.000
BVC Elevation = 683.843

Station	x (Sta)	g1*x	r/2*x*x	Elevation
2+265.000	1.800	5.400	-4.500	684.743
2+250.000	1.650	4.950	-3.781	685.012
2+220.000	1.350	4.050	-2.531	685.362
2+190.000	1.050	3.150	-1.531	685.462
2+160.000	0.750	2.250	-0.781	685.312
2+130.000	0.450	1.350	-0.281	684.912
2+100.000	0.150	0.450	-0.031	684.262
2+085.000	0	0	0	683.843

Maximum elevation = 685.463 @ station 2+193.000

2-

L = 761.217 m
BVC Station = 5+919.391
BVC Elevation = 186.900

Station	x (Sta)	g1*x	r/2*x*x	Elevation
6+680.608	7.612	38.061	-13.321	211.639
6+600.000	6.806	34.030	-10.649	210.281
6+500.000	5.806	29.030	-7.750	208.180
6+400.000	4.806	24.030	-5.310	205.620
6+300.000	3.806	19.030	-3.330	202.600
6+200.000	2.806	14.030	-1.810	199.120
6+100.000	1.806	9.030	-0.750	195.180
6+000.000	0.806	4.030	-0.149	190.781
5+919.391	0	0	0	186.900

3-

685.463 @ station 2+193.000

Good luck,