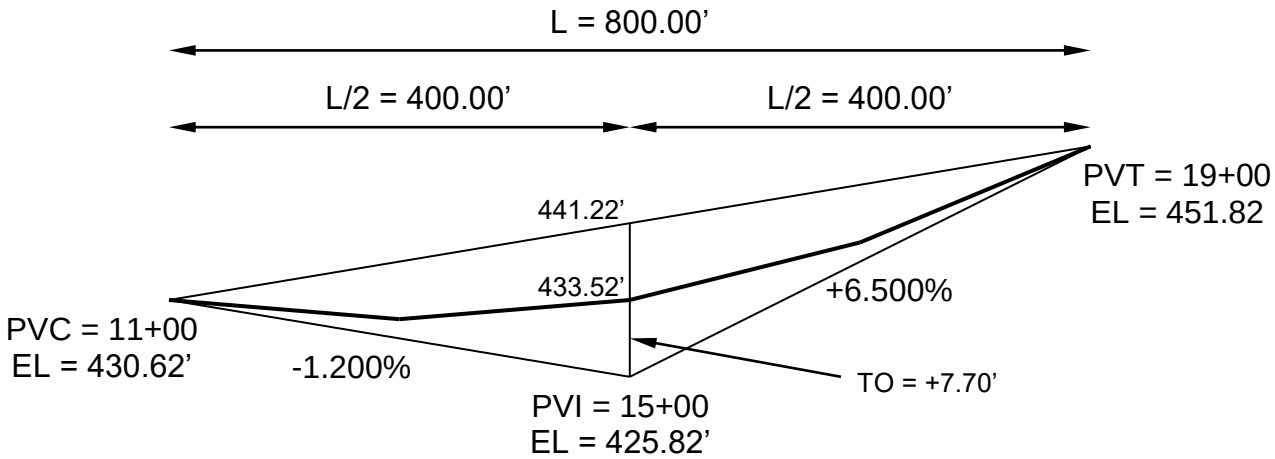
Key

1. Given the curve as shown…
   Find elevations for full stations:



STATION	X	TANGENT ELEVATION	OFFSET	CURVE ELEVATION	FIRST DIFFERENCE	SECOND DIFFERENCE
11+00	0.00	430.62	0.00	430.62		
					-0.72	
12+00	1.00	429.42	0.48	429.90		0.96
					0.24	
13+00	2.00	428.22	1.93	430.15		0.96
					1.21	
14+00	3.00	427.02	4.33	431.35		0.96
					2.17	
15+00	4.00	425.82	7.70	433.52		0.96
					3.13	
16+00	3.00	432.32	4.33	436.65		0.96
					4.09	
17+00	2.00	438.82	1.93	440.75		0.96
					5.06	
18+00	1.00	445.32	0.48	445.80		0.96
					6.02	
19+00	0.00	451.82	0.00	451.82		

Alternate – using first tangent only…

STATION	X	TANGENT ELEVATION	OFFSET	CURVE ELEVATION	FIRST DIFFERENCE	SECOND DIFFERENCE
11+00	0.00	430.62	0.00	430.62		
					-0.72	
12+00	1.00	429.42	0.48	429.90		0.96
					0.24	
13+00	2.00	428.22	1.93	430.15		0.96
					1.21	
14+00	3.00	427.02	4.33	431.35		0.96
					2.17	
15+00	4.00	425.82	7.70	433.52		0.96
					3.13	
16+00	5.00	424.62	12.03	436.65		0.96
					4.09	
17+00	6.00	423.42	17.33	440.75		0.96
					5.06	
18+00	7.00	422.22	23.58	445.80		0.96
					6.02	
19+00	8.00	421.02	30.80	451.82		

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