Example:-

A -2% grade meets a 3% grade at a station 0+500. A vertical curve is to be used to connect the two grades. The elevation of the PVI is 100 m and the elevation of PVC is 106 m, determine

* The length of the curve
* The station of PVC
* The station and elevation of PVT.
* The elevation of the curve at PVI.
* The elevation and station of the high (low) point of the curve.

***Solution***

**The length of the curve**









**The station of PVC**









**The station and elevation of PVT.**





















**The elevation of the curve at PVI.**









**The elevation and station of the high (low) point of the curve.**









