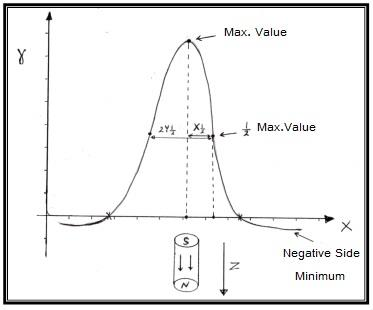
Magnetic lab

**Half width**

*-Depth estimation is one of the main objectives of magnetic interpretation.*

*Simple rules give depths to the tops of source bodies that are usually correct to within about 30%, which is adequate for preliminary assessment of ﬁeld results.*

*Depth = ½ width between the flanks of curves of an amplitude of ½ maximum amplitude*

*= X1/2 max* 

*Problem1:*

*An magnetic survey was* *conducted in a regions using a (Flux – Gate Magnetometer) instrument, the vertical component of the magnetic field strength was measured , also a contour map of the magnetic anomaly were drawn.*

1. *Plot a magnetic anomaly curve along the section A-B*
2. *Find the depth of the metallic body that causes this anomaly*
3. *Show the location and the extend object on the map.*

