

Name .....

Student #.....

## GLY 264: Introduction to Geophysics

### Practical 2. Gravity Anomaly

The size and the shape of an anomaly provide some information about the depth and the width of the body producing the anomaly. The anomaly shown below resulted from a subsurface geological body at unknown depth. Show all your rough work and calculations!

1. Establish the position of the zero line of the anomaly of the unknown causative body. [2]
2. Suppose the unknown target is a thin dolerite dyke, find its centre. [2]
3. Find the depth of the thin dyke by using the “half maximum width” method. [3]
4. Make a guess about the dip direction of the dyke by using the shape of the anomaly. [3]

