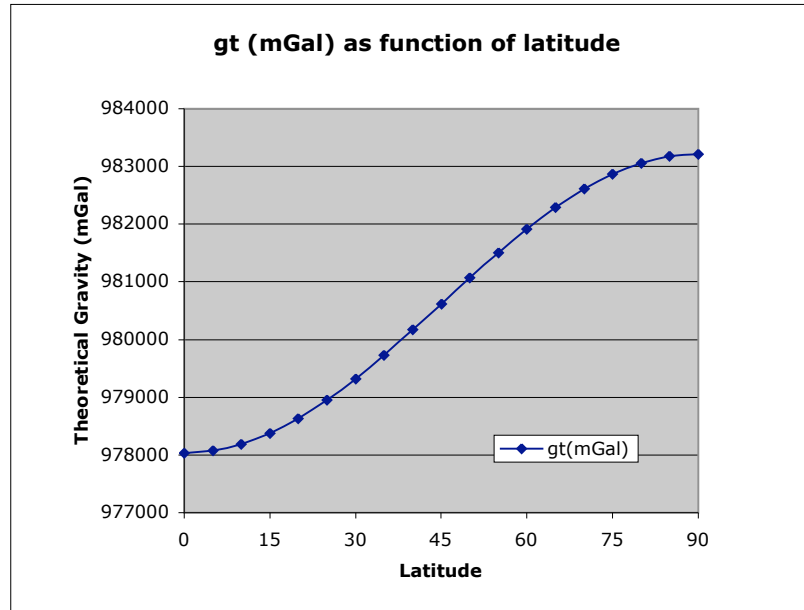


#### L4 Geophysics Lab 1: Calculating Free Air and Bouguer Corrections and Free Air and Bouguer Anomalies

latitude (degrees)	latitude (radians)	gt(mGal)
90.0000	1.570796	983217.724
85.0000	1.483530	983178.1585
80.0000	1.396263	983060.6797
75.0000	1.308997	982868.9022
70.0000	1.221730	982608.7218
65.0000	1.134464	982288.1284
60.0000	1.047198	981916.953
55.0000	0.959931	981506.5581
50.0000	0.872665	981069.4821
45.0000	0.785398	980619.0504
40.0000	0.698132	980168.9646
35.0000	0.610865	979732.8847
30.0000	0.523599	979324.016
25.0000	0.436332	978954.7128
20.0000	0.349066	978636.1118
15.0000	0.261799	978377.8035
10.0000	0.174533	978187.5522
5.0000	0.087266	978071.0696
0.0000	0.000000	978031.85



#### Calculations for specific site:

48.1195      0.839844      980900.9082 mGal

**global average g**      980622.0697 mGal

**dg/dR**      -0.30803269 mGal/m

**R**      6367000 m

**del g**      5185.874026 mGal

**elevation**      487.9 m

**rhoc**      2.67

**rhow**      1.03

**delrho**      -1.64

**g\_obs**      980717.39

	Land	Sea
<b>gt</b>	980900.908 mGal	980900.908 mGal
<b>FAC</b>	150.28915 mGal	0 mGal
<b>BC</b>	54.5828367 mGal	-33.526536 mGal
<b>delg_FA</b>	-33.229065 mGal	-183.51821 mGal
<b>delg_BC</b>	-87.811902 mGal	-149.99168 mGal