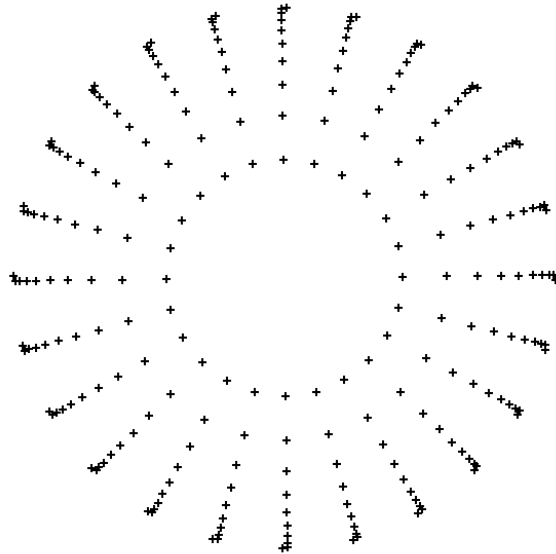


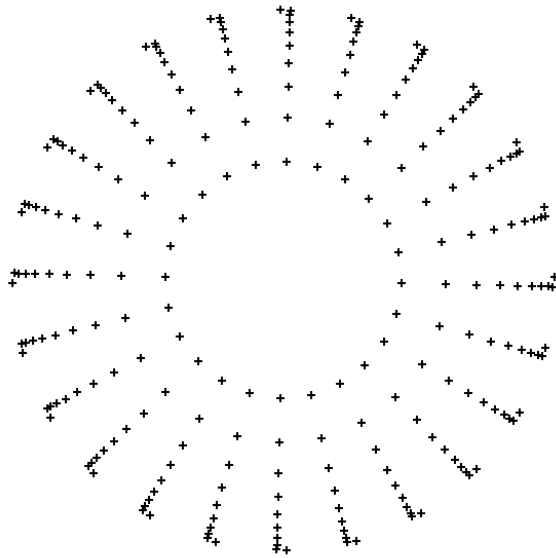
3-D Sphere

$R = 2.5 @ (2.5, 2.5, 2.5)$

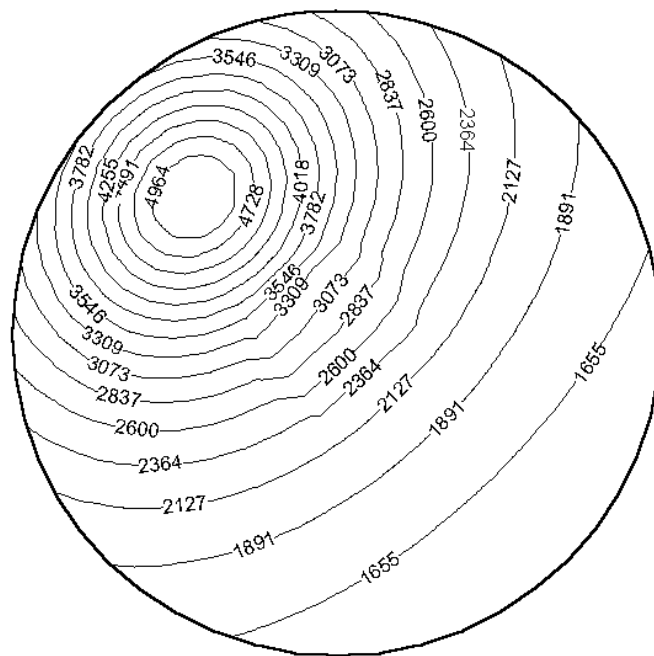
$$f(x,y,z) = \frac{-500}{[(x - 5)^2 + (y - 0)^2 + (z + 2)^2]^{1/2}} + \frac{10000}{[(x - 0)^2 + (y + 0.1)^2 + (z - 5)^2]^{1/2}} + \frac{100}{[(x - 0)^2 + (y - 5)^2 + (z - 6)^2]^{1/2}}$$



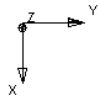
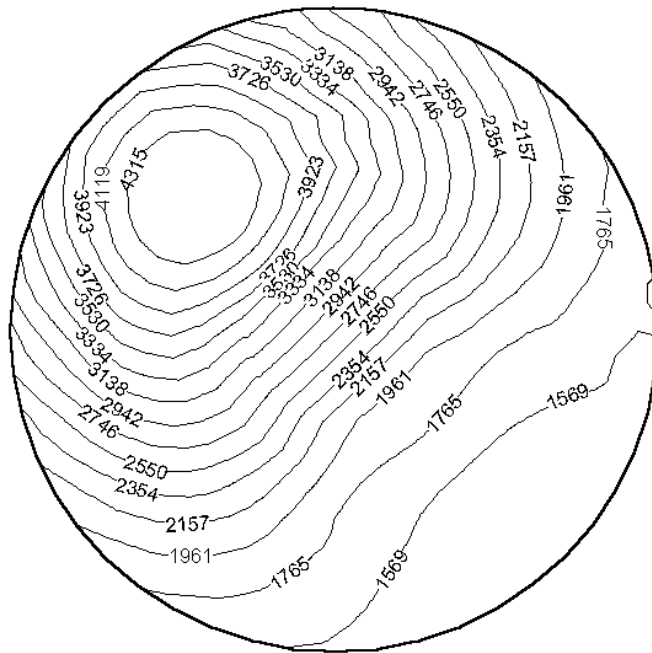
240 Integration Points on North Hemisphere



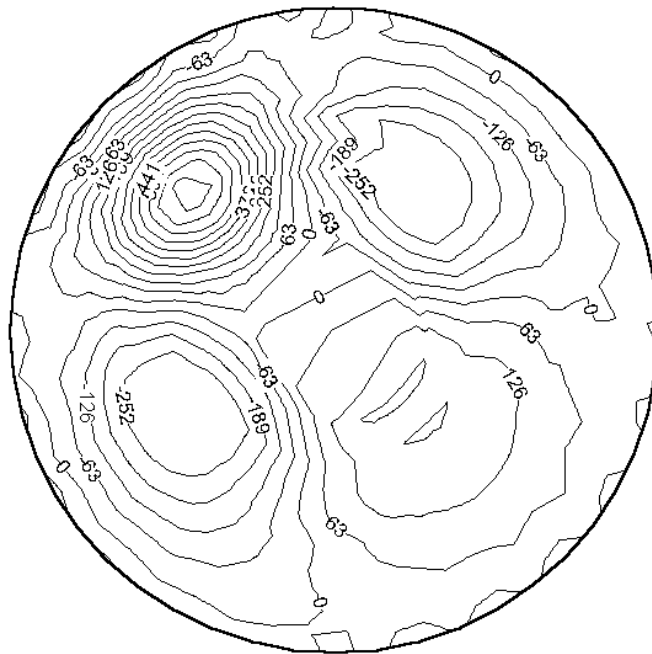
240 Integration Points on South Hemisphere



Exact Solution on North Hemisphere



Approximation on North Hemisphere



Approximation Error on North Hemisphere

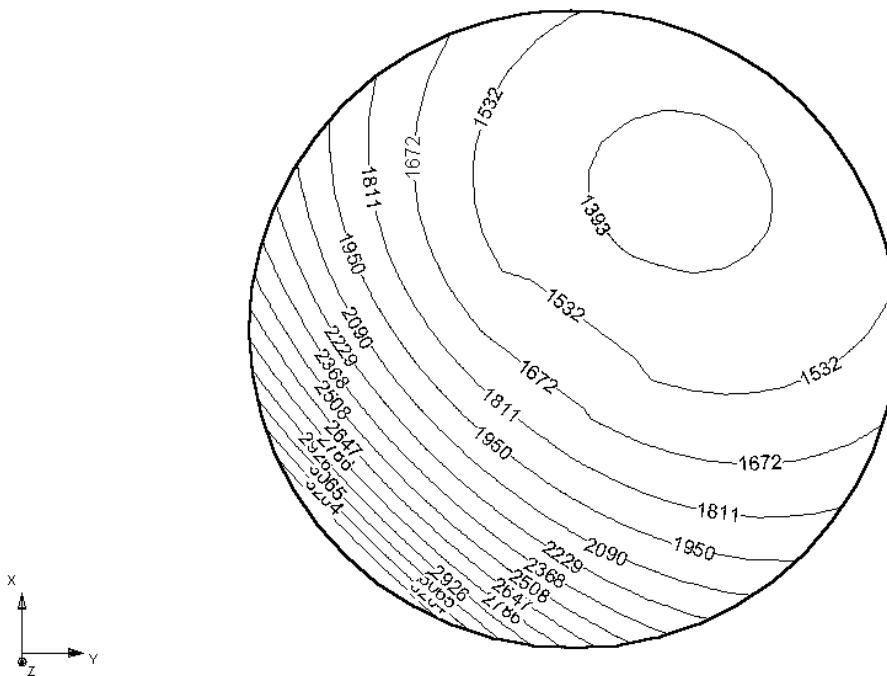
3-D Sphere

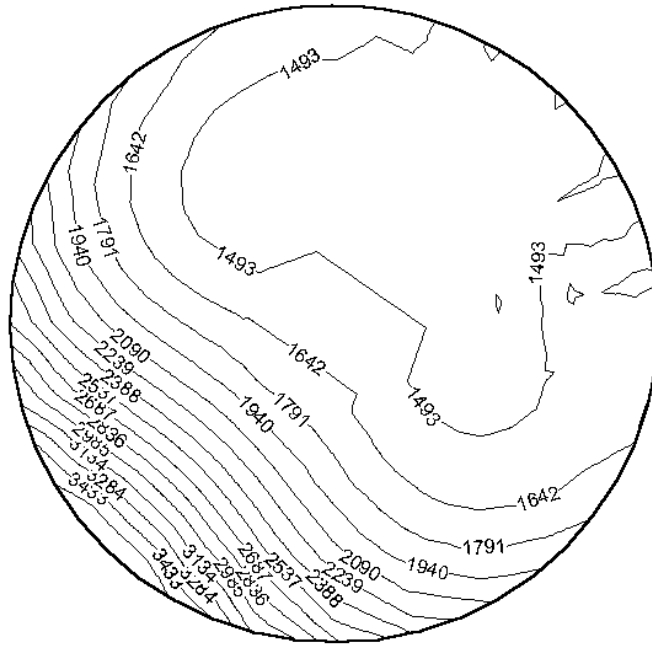
$R = 2.5 @ (2.5, 2.5, 2.5)$

$$f(x,y,z) = \frac{-500}{[(x - 5)^2 + (y - 0)^2 + (z + 2)^2]^{1/2}}$$

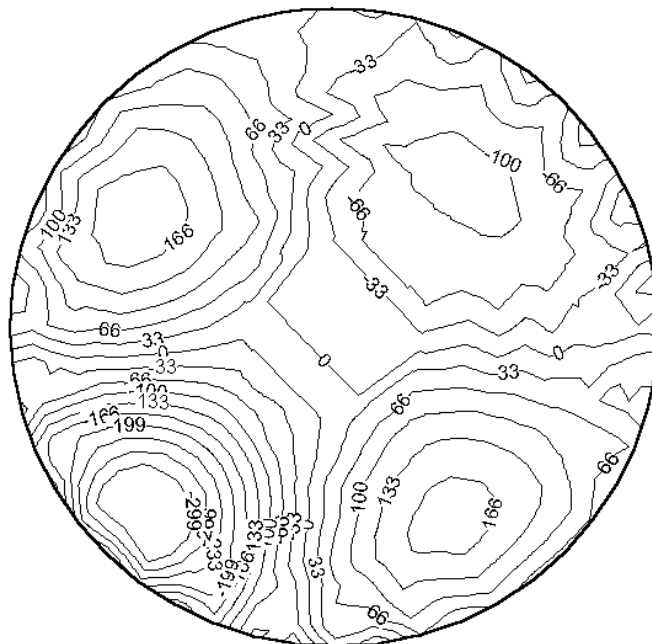
$$+ \frac{10000}{[(x - 0)^2 + (y + 0.1)^2 + (z - 5)^2]^{1/2}}$$

$$+ \frac{100}{[(x - 0)^2 + (y - 5)^2 + (z - 6)^2]^{1/2}}$$





Approximation on South Hemisphere



Approximation Error on South Hemisphere