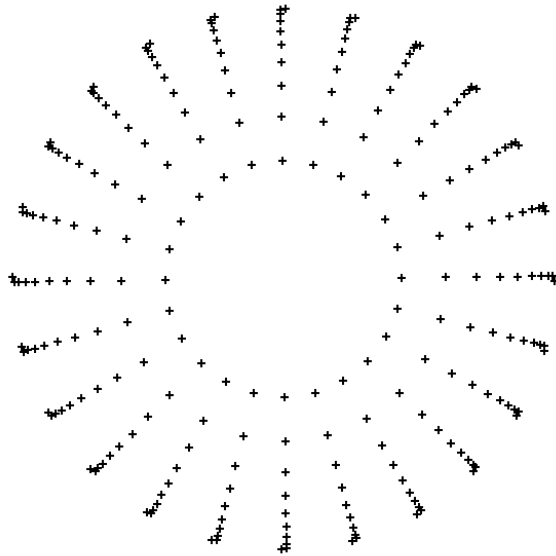


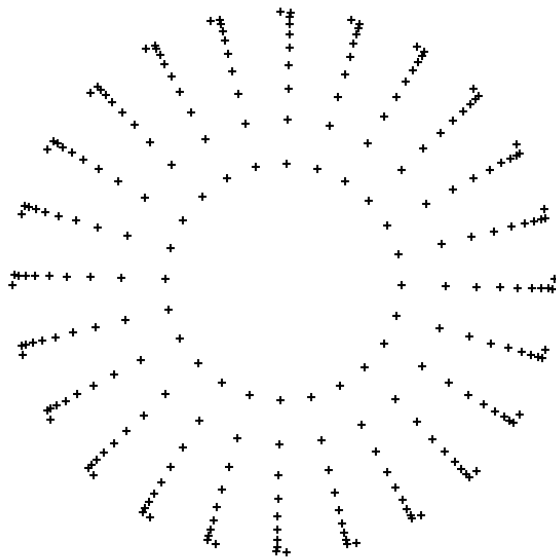
3-D Sphere

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

$$f(x,y,z) = x^6 - 15x^4y^2 + 15x^2y^4 - y^6 + 2x^4 - 12x^2z^2 + 2z^4 + 4y^2 - 4z^2$$

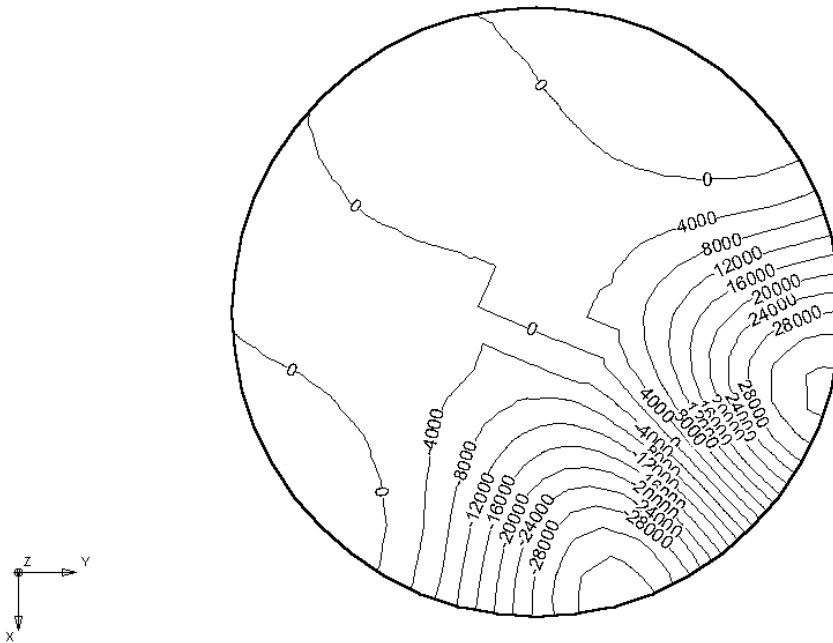


240 Integration Points on North Hemisphere



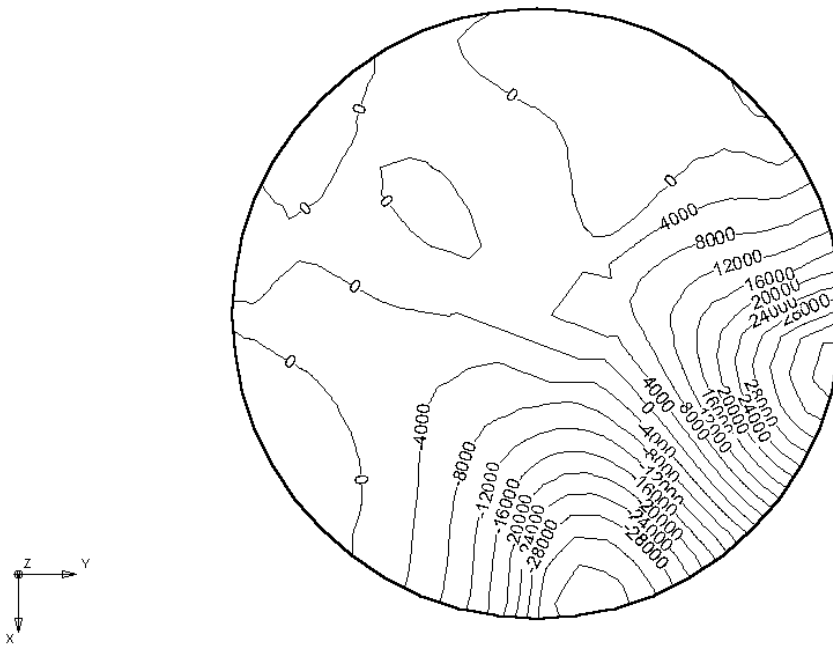
240 Integration Points on South Hemisphere

$$f(x,y,z) = x^6 - 15x^4y^2 + 15x^2y^4 - y^6 + 2x^4 - 12x^2z^2 + 2z^4 + 4y^2 - 4z^2$$

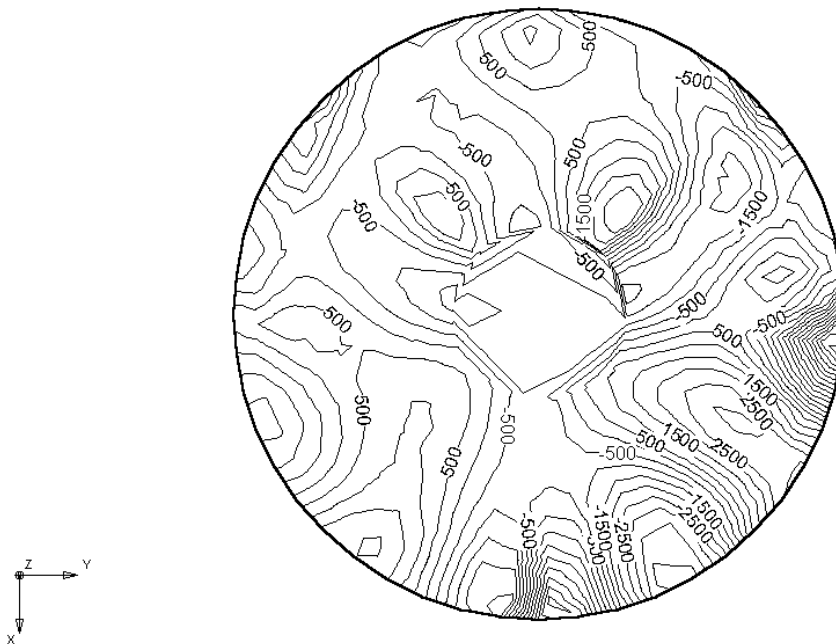


Exact Solution on North Hemisphere

With Five Projection Planes, Vector displacements from centroid: $(0.,0.,-2.5)$, $(0.,-2.5,0.)$, $(-2.5,0.,0.)$, $(2.5,2.5,2.5)$ and $(-2.5,2.5,-2.5)$



Approximation on North Hemisphere
 With Five Projection Planes, Vector displacements from centroid: $(0.,0.,-2.5)$, $(0.,-2.5,0.)$, $(-2.5,0.,0.)$, $(2.5,2.5,2.5)$ and $(-2.5,2.5,-2.5)$

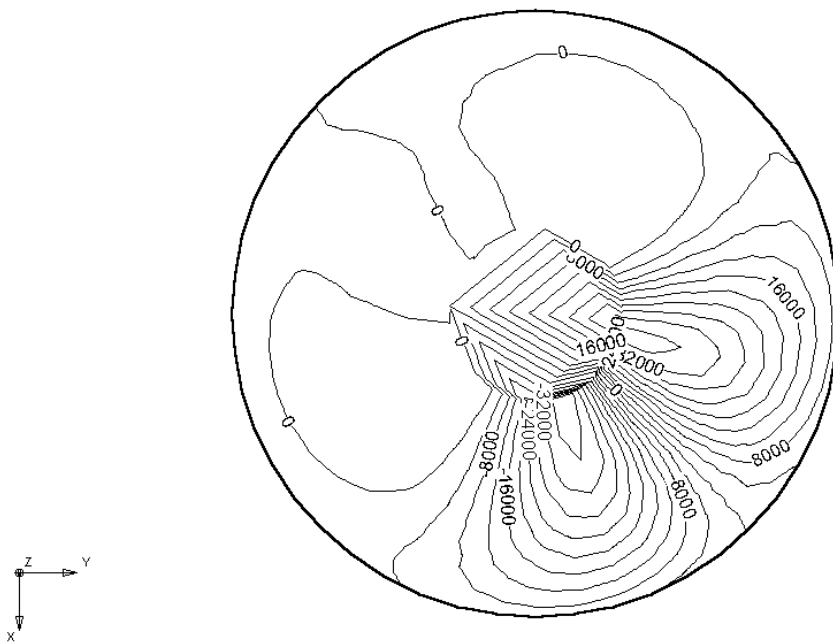


Approximation Error on North Hemisphere
 With Five Projection Planes, Vector displacements from centroid: $(0.,0.,-2.5)$, $(0.,-2.5,0.)$, $(-2.5,0.,0.)$, $(2.5,2.5,2.5)$ and $(-2.5,2.5,-2.5)$

3-D Sphere

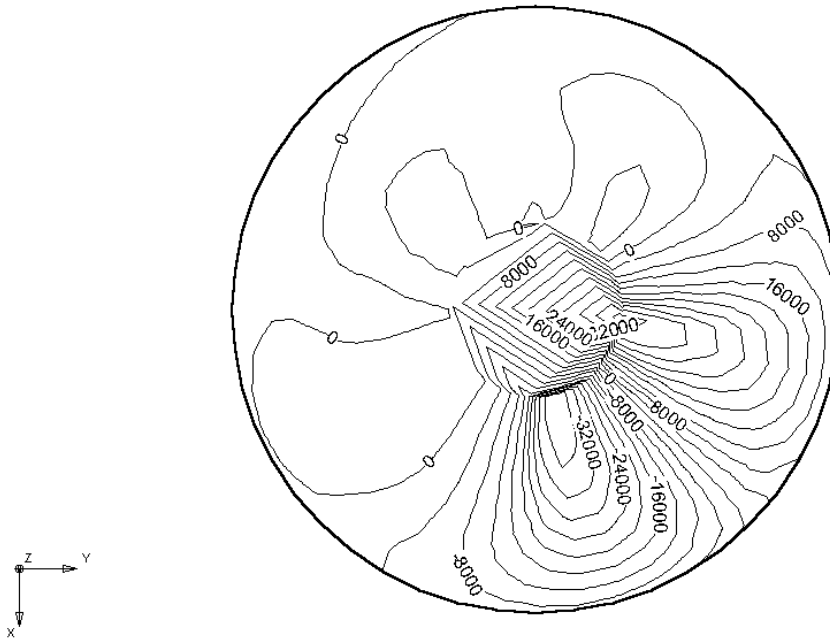
$R = 2.5 @ (2.5, 2.5, 2.5)$

$$f(x,y,z) = x^6 - 15x^4y^2 + 15x^2y^4 - y^6 + 2x^4 - 12x^2z^2 + 2z^4 + 4y^2 - 4z^2$$



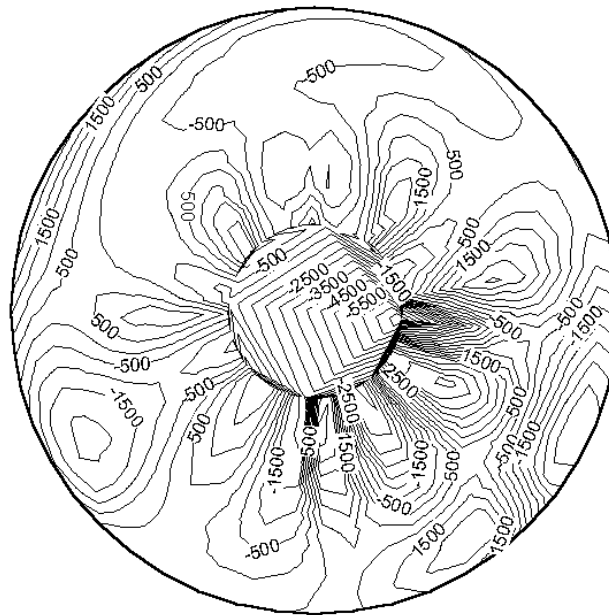
Exact Solution on South

With Five Projection Planes, Vector displacements from centroid: $(0., 0., -2.5)$, $(0., -2.5, 0.)$, $(-2.5, 0., 0.)$, $(2.5, 2.5, 2.5)$ and $(-2.5, 2.5, -2.5)$



Approximation on South Hemisphere

With Five Projection Planes, Vector displacements from centroid: $(0.,0.,-2.5)$, $(0.,-2.5,0.)$, $(-2.5,0.,0.)$, $(2.5,2.5,2.5)$ and $(-2.5,2.5,-2.5)$



Approximation Error on South Hemisphere

With Five Projection Planes, Vector displacements from centroid: $(0.,0.,-2.5)$, $(0.,-2.5,0.)$, $(-2.5,0.,0.)$, $(2.5,2.5,2.5)$ and $(-2.5,2.5,-2.5)$