


```
43 If[i < 6, a[i] = f[node[[i]]],  
44 If[Mod[i,5] == 0, a[i] = f[nod[[5]]], a[i] = f[nod[[Mod[i,5]]]]]  
45 ]  
46 ]  
47 ClearAll[A1];  
48 (* Approximation *)  
49 A1 = Thread[Apart[Sum[a[i]*(Subscript[N,i]^2)[{x,y}], {i,1,10}]]]  
50 (* Plot *)  
51 Plot3D[A1, {x, y} ∈ Polygon[node]]  
52 g[{x_, y_}] = Simplify[Abs[A1 - f[{x, y}]]]  
53 NIntegrate[g[{x, y}], {x, y} ∈ Polygon[node]]  
54 Plot3D[g[{x, y}], {x, y} ∈ Polygon[node],  
55 ColorFunction → Function[{x, y, z}, Hue[z]]]
```
