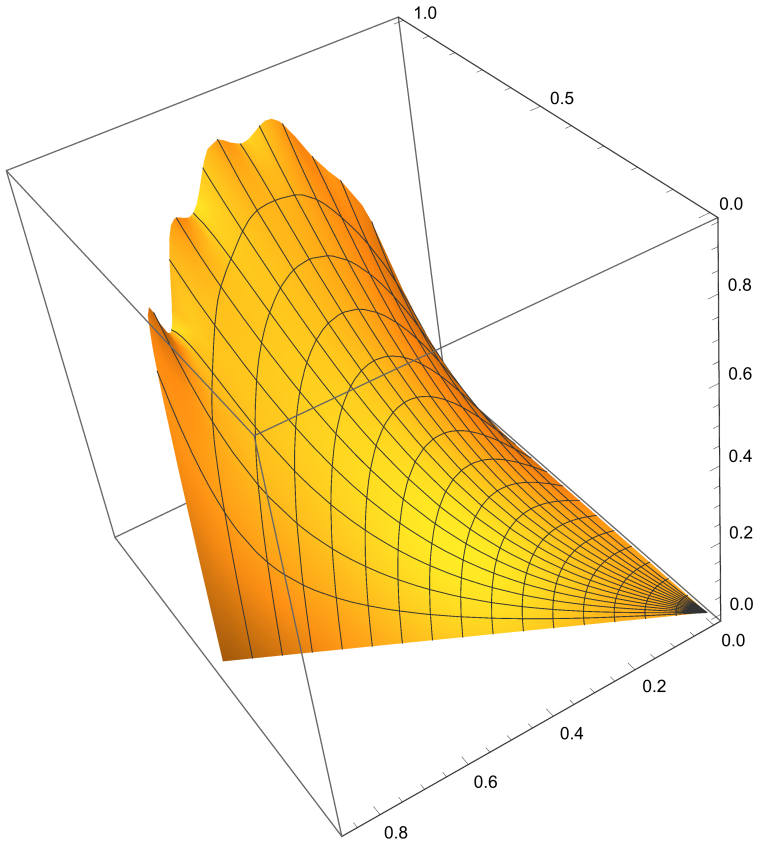
In[378]:=

```
Clear[a, b, c, n, m, x, r, a, G, phi]
rho := 1
theta0 := π/3
f[θ_] := 5 θ e^(-2 θ)
nTerms := 10
lambda[n_] := (π n/theta0)^2
phi[θ_, n_] := Sin[θ Sqrt[lambda[n]]]
G[r_, n_] := r^Sqrt[lambda[n]]
B[n_] := (2 ∫_0^theta0 f[θ] phi[θ, n] dθ)/(theta0 G[rho, n])
u[r_, θ_, M_] := Sum_(n=1)^M B[n] G[r, n] phi[θ, n]
z[r_, θ_] := Evaluate[u[r, θ, nTerms]]
ParametricPlot3D[{r * Cos[θ], r * Sin[θ], z[r, θ]}, {r, 0, rho}, {θ, 0, theta0}]
```

Out[389]=



In[390]:=
```
myPlots :=
 Table[PolarPlot[z[r, θ], {θ, 0, theta0}, PlotRange → {0, 0.8}], {r, 0, rho, .01}]

Show[myPlots]
```

Out[391]=