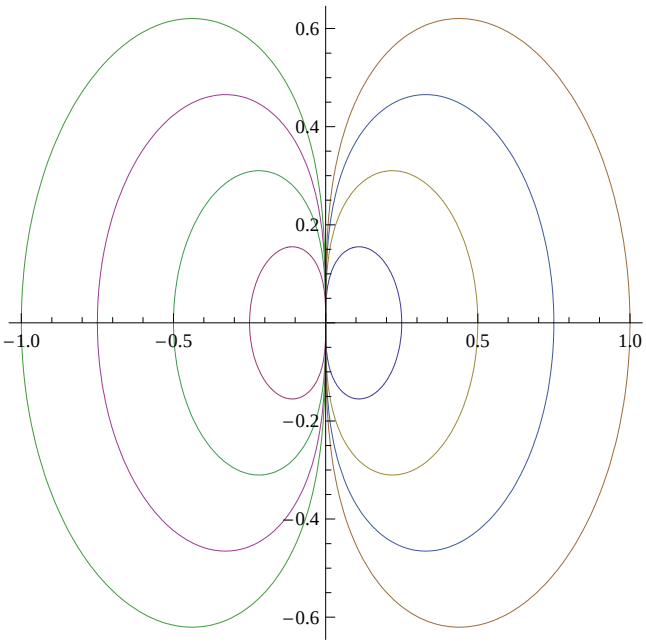
```
fd[x_, a_] := a * (Cos[x])^(1 / 2)
fq[z_, a_] := a * (Abs[(3.0 * Cos[z]^2 - 1.0)])^(1 / 3)
PolarPlot[{
   fd[z, 1 / 4], -fd[z, 1 / 4],
   fd[z, 1 / 2], -fd[z, 1 / 2],
   fd[z, 3 / 4], -fd[z, 3 / 4],
   fd[z, 1], -fd[z, 1]},
 {z, 0, 2 * Pi}, AspectRatio → 1]
PolarPlot[{
   fq[z, 1 / 4], fq[z, 1 / 2],
   fq[z, 3 / 4], fq[z, 1]},
 {z, -2 Pi, 2 * Pi}, AspectRatio → 1]
```

Out[246]=



Out[247]=