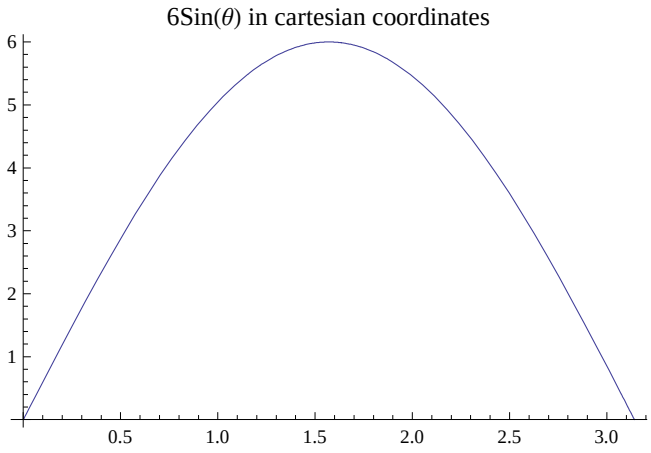
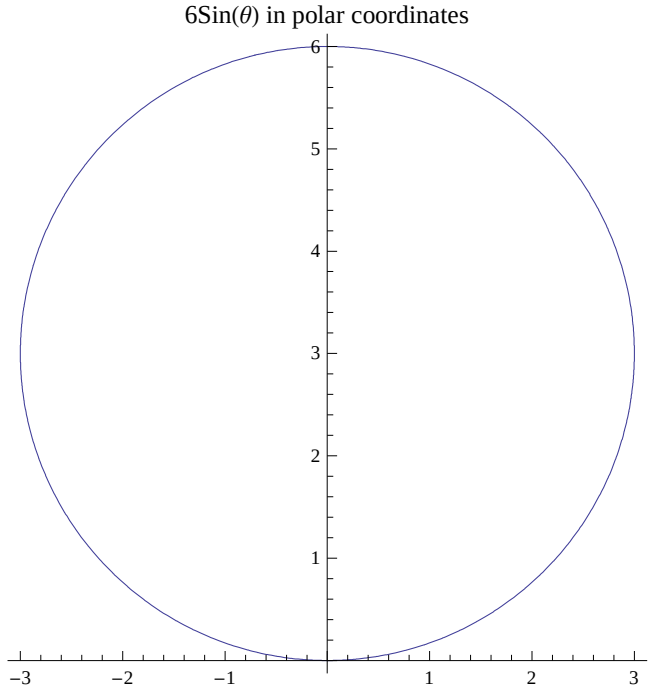
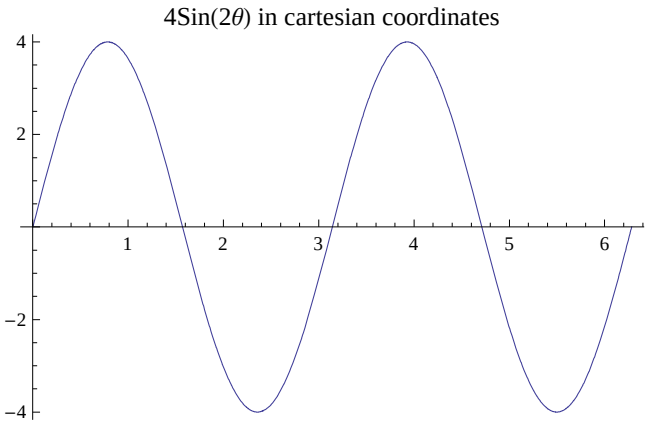
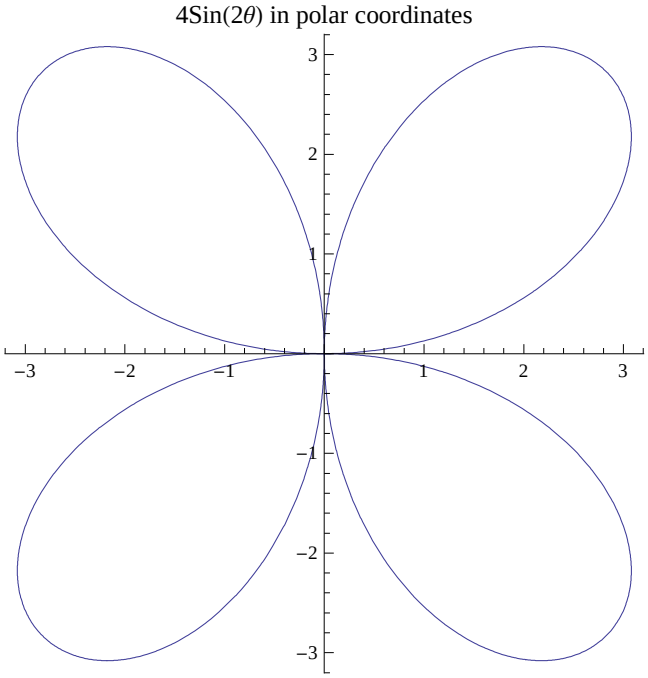
```
Plot[6 Sin[θ], {θ, 0, Pi}, PlotLabel → "6Sin(θ) in cartesian coordinates"]
PolarPlot[6 Sin[θ], {θ, 0, Pi}, PlotLabel → "6Sin(θ) in polar coordinates"]
```





```
Plot[4 Sin[2 θ], {θ, 0, 2 Pi}, PlotLabel → "4Sin(2θ) in cartesian coordinates"]
PolarPlot[4 Sin[2 θ], {θ, 0, 2 Pi}, PlotLabel → "4Sin(2θ) in polar coordinates"]
```





```
Plot[Exp[θ / 2], {θ, 0, 2 Pi}, PlotLabel → "exp(θ/2) in cartesian coordinates"]
PolarPlot[Exp[θ / 2], {θ, 0, 2 Pi}, PlotLabel → "exp(θ/2) in polar coordinates"]
```