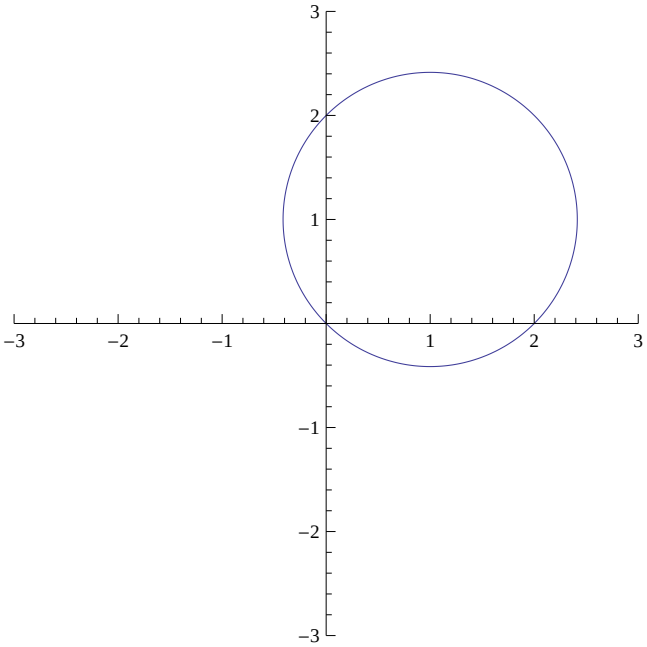
In[103]:=
```
Clear["Global`*"];
(*Idea 2*)
(*Use Polar Cordinates*)
(*x=R*Cos[q] y=R*Sin[q]*)

(*Define the Following;
x0=; y0=;
x1=; y1=;
θ=;*)

(*Refernce To Origin*)
x1o = x1 - x0;
y1o = y1 - y0;

(*Equation for Radius*)
R = Sqrt[x1o^2 + y1o^2] ;

(*Determining the polar angle of V1 at the origin*)
q = ArcTan[y1o / x1o];

(*Determing the rectangular points of V2*)
x2o = R * Cos[q + θ];
y2o = R * Sin[q + θ];

(*Offseting V2*)
x2 = x2o + x0;
y2 = y2o + y0;

(*Plotting*)
x0 = 1; y0 = 1;
x1 = 2; y1 = 0;
ParametricPlot[{x2, y2}, {θ, 0, 2 Pi}, PlotRange → 3]

x0 = -1.5; y0 = 2;
x1 = 0; y1 = 0;
ParametricPlot[{x2, y2}, {θ, 0, 2 Pi}, PlotRange → 3]
```

Out[114]=



Out[117]=