In[1]:= ? ParametricPlot

Symbol

ParametricPlot[$\{f_x, f_y\}$, $\{u, u_{min}, u_{max}\}$] generates a parametric

plot of a curve with x and y coordinates f_x and f_y as a function of u.

ParametricPlot[$\{\{f_x, f_y\}, \{g_x, g_y\}, ...\}, \{u, u_{min}, u_{max}\}$] plots several parametric curves.

 $\mathsf{ParametricPlot}\big[\big\{f_{\!x},f_{\!y}\big\},\{u,\,u_{\!\mathit{min}},\,u_{\!\mathit{max}}\},\{v,\,v_{\!\mathit{min}},\,v_{\!\mathit{max}}\}\big]\ \mathsf{plots}\ \mathsf{a}\ \mathsf{parametric}\ \mathsf{region}.$

ParametricPlot[$\{f_x, f_y\}, \{g_x, g_y\}, \ldots\}, \{u, u_{min}, u_{max}\}, \{v, v_{min}, v_{max}\}$]

plots several parametric regions.

ParametricPlot $[\{...,w[\{f_{x},f_{y}\}],...\},...]$ plots the

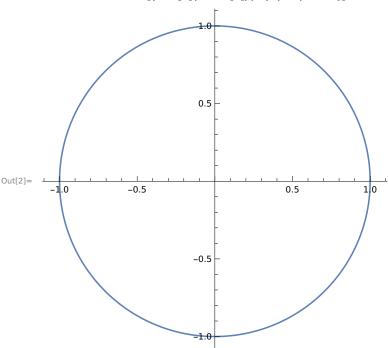
curve $\{f_x, f_y\}$ with features defined by the symbolic wrapper w.

ParametricPlot[..., $\{u, v\} \in reg$] takes parameters $\{u, v\}$ to be in the geometric region reg.

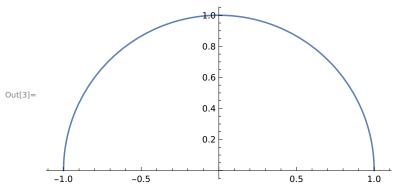
~

Out[1]=

In[2]:= ParametricPlot[{Cos[t], Sin[t]}, {t, 0, 2 Pi}]







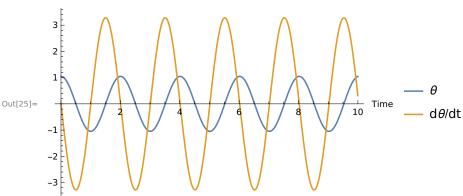
ParametricPlot[{Cos[t], Sin[t]}, {t, 0, Pi}]

In[23]:= theta = theta0 Cos[wn t] + 1 / wn thetad0 Sin[wn t]

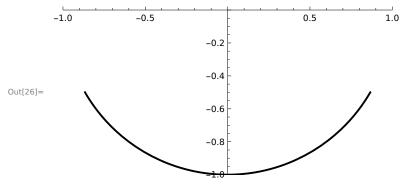
Out[23]= $0. + \frac{1}{3} \pi \cos[3.13209 t]$

In[24]:= thetad = -wn theta0 Sin[wn t] + thetad0 Cos[wn t]

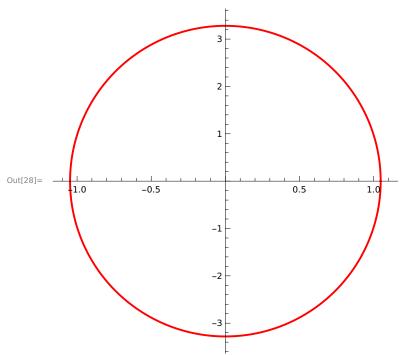
Out[24] = -3.27992 Sin[3.13209 t]



 $\label{eq:local_local_local_local} $$ \ln[26]:=$ $$ ParametricPlot[{l Sin[theta], -l Cos[theta]}, {t, 0, 1}, $$ $$ PlotRange $\to {\{-1, 1\}, \{-1, 0\}\}, PlotStyle $\to {Thick, Black}]}$$$



In[28]:= ParametricPlot[{theta, thetad}, {t, 0, 2 Pi / wn}, PlotStyle \rightarrow {Thick, Red}, AspectRatio \rightarrow 1]



 $\label{eq:loss} $$ \ln[29]:=$ ListLinePlot[Table[{Cos[t], Sin[t]}, {t, 0, 2Pi, 0.1}], AspectRatio $\to 1$] $$$

