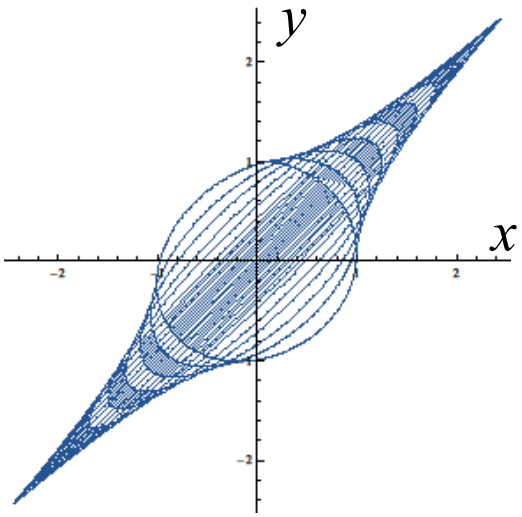
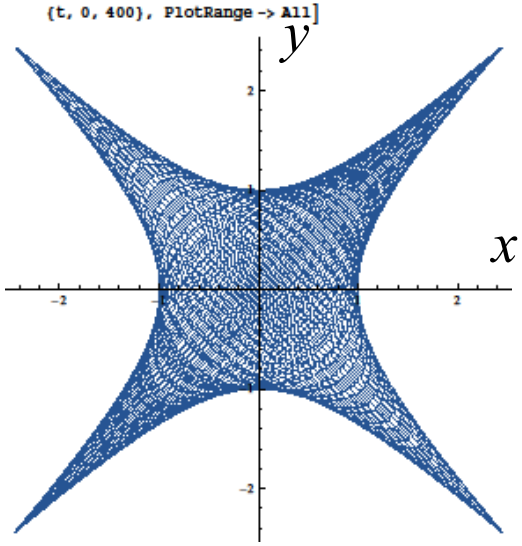
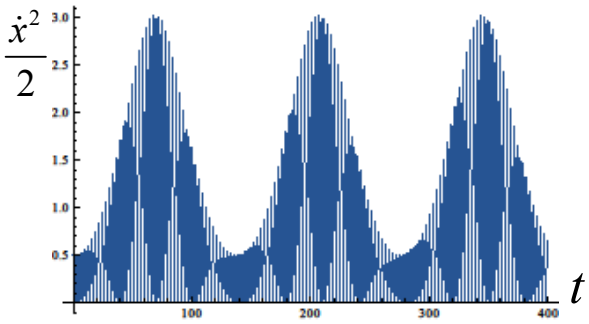
```
ParametricPlot[Evaluate[{x[t], y[t]} /. sol],
    {t, 0, 100}, PlotRange -> All]
```



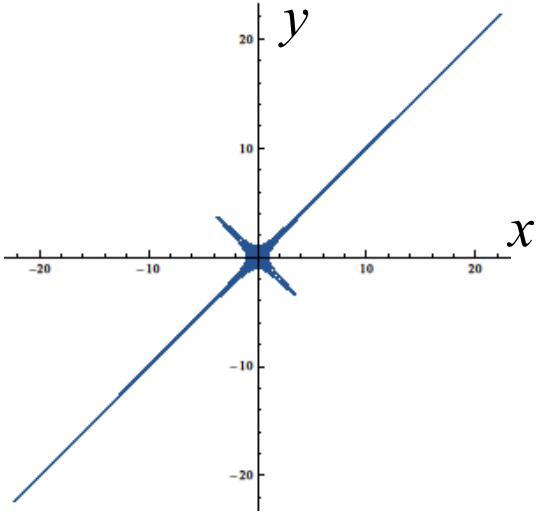

```
ParametricPlot[Evaluate[{x[t], y[t]} /. sol],
    {t, 0, 400}, PlotRange -> All]
```



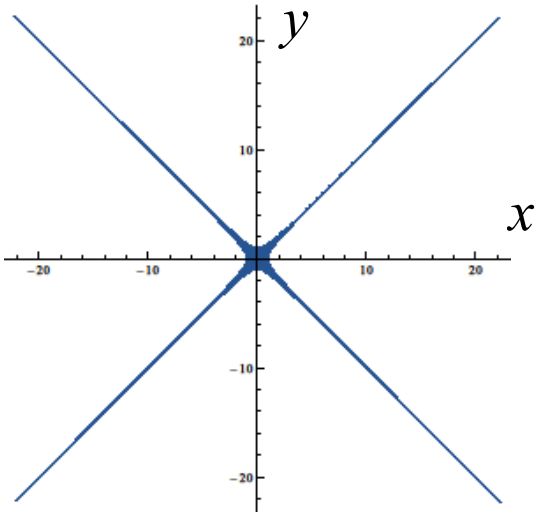

```
Plot[Evaluate[x'[t]^2 / 2 /. sol],
    {t, 0, 400}, PlotRange -> All]
```




```
ParametricPlot[Evaluate[{x[t], y[t]} /. sol],
    {t, 0, 400}, PlotRange -> All]
```




```
ParametricPlot[Evaluate[{x[t], y[t]} /. sol],
    {t, 0, 777}, PlotRange -> All]
```




```
Plot[Evaluate[x'[t]^2 / 2 /. sol],
    {t, 0, 777}, PlotRange -> All]
```