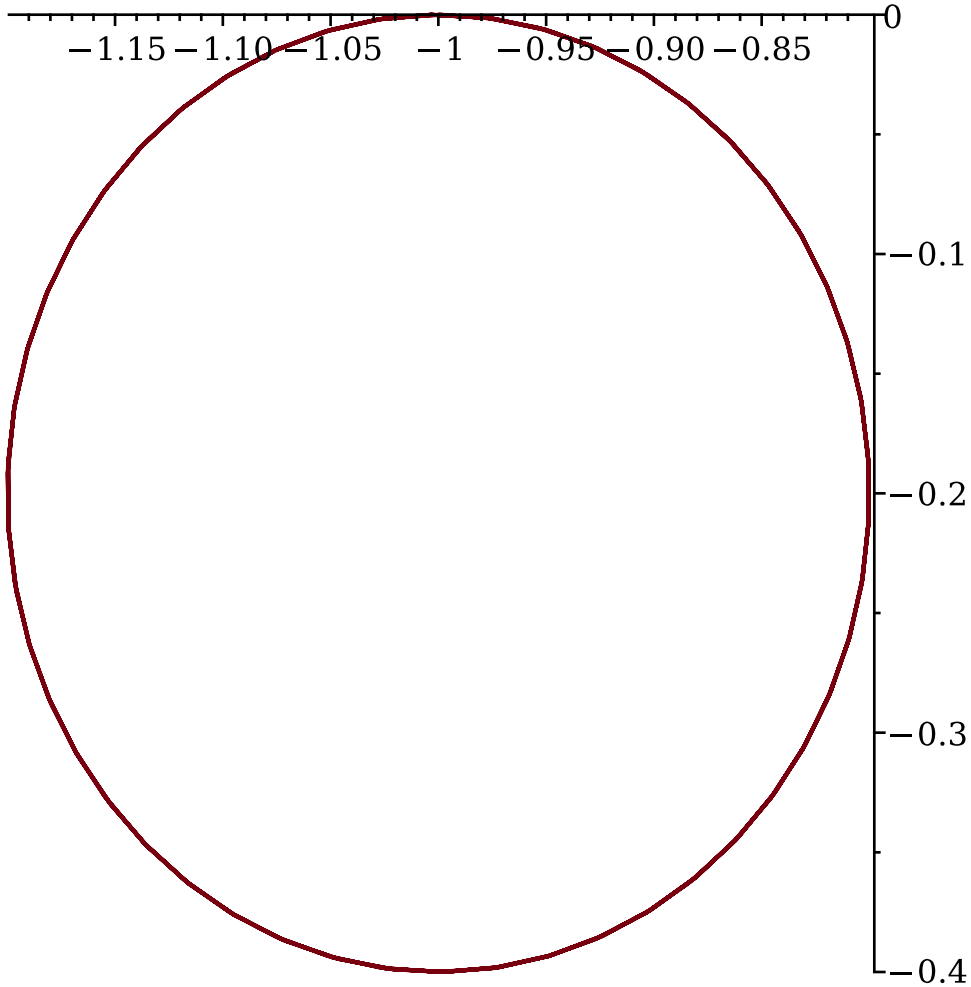
```
> restart : with(inttrans) : with(LinearAlgebra) :
> A := Matrix([[0, 0, B, 0, Ex], [1, 0, 0, 0, 0], [−B, 0, 0, 0, Ey], [0, 0, 1, 0, 0], [0, 0,
      0, 0, 0]]) :
> y := Vector([vx0, x0, vy0, y0, 1]) :
>  J, Q := JordanForm(A, output = ['J', 'Q']) :
> exp_A := MatrixExponential(A, t) :
> res := exp_A • y :
> x := res[2] :
> y := res[4] :
> # ii
> # We doen maar eentje
> A := Matrix([[0, 0, 10, 0, 0], [1, 0, 0, 0, 0], [−10, 0, 0, 0, 0], [0, 0, 1, 0, 0], [0, 0,
      0, 0, 0]]) :
>  exp_A := MatrixExponential(A, t) :
> res := exp_A • Vector([2, −1, 0, 0, 1]) :
> x := res[2] :
> y := res[4] :
> plot_1 := plot([x, y, t = 0 ..5])
```




```
>
```