$x := 100$

$y := 200$

$u := 0.9$

$v := 0.5$

$$z := \begin{bmatrix} x \\ y \\ u \\ v \end{bmatrix}$$

$$\Omega := \frac{\pi}{12 \cdot 60 \cdot 60}$$

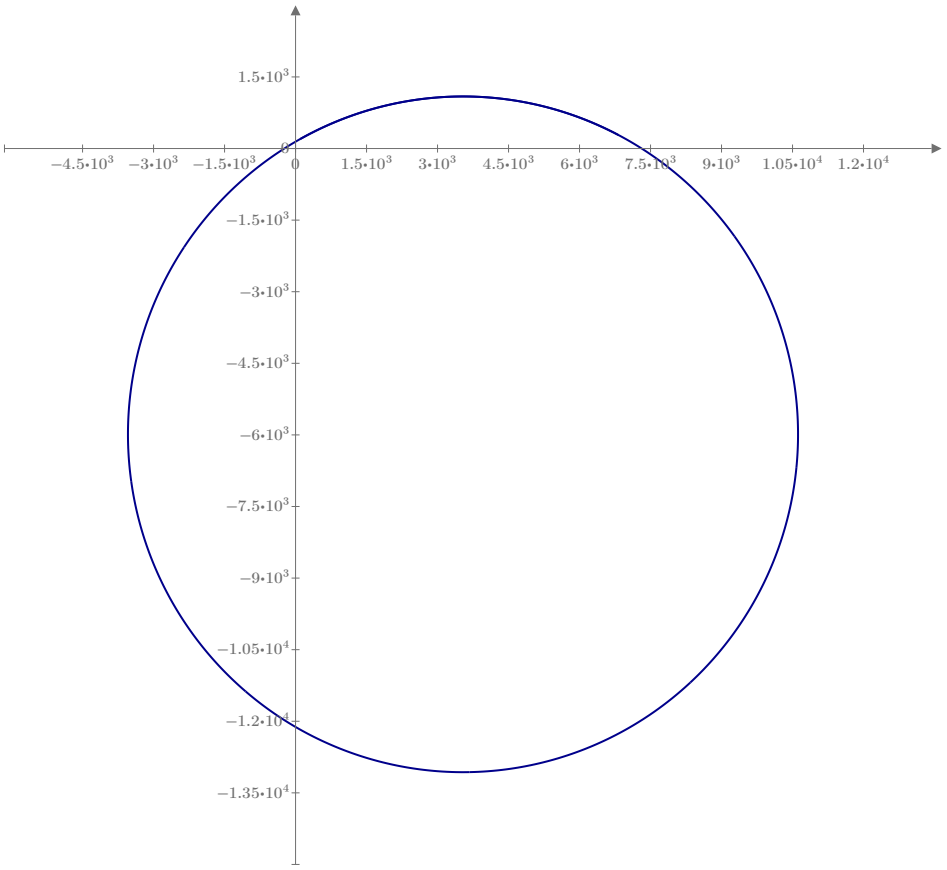
$$d(x, y) := \sqrt{x^2 + y^2}$$

$$D(t, z) := \begin{bmatrix} z_2 \\ z_3 \\ 2 \cdot \Omega \cdot z_3 \\ -2 \cdot \Omega \cdot z_2 \end{bmatrix}$$

$Z := \text{rkfixed}(z, 0, 50000, 5000, D) =$

$i := 0 .. \text{rows}(Z) - 1$

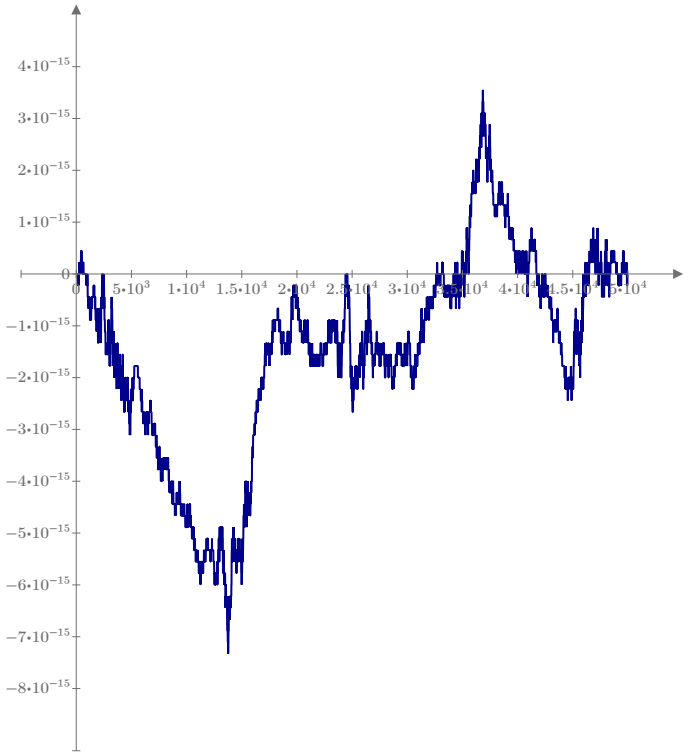
$$\begin{bmatrix} 0 & 100 & 200 & 0.9 & 0.5 \\ 10 & 109.004 & 204.993 & 0.901 & 0.499 \\ 20 & 118.015 & 209.974 & 0.901 & 0.497 \\ 30 & 127.033 & 214.941 & 0.902 & 0.496 \\ 40 & 136.058 & 219.895 & 0.903 & 0.495 \\ 50 & 145.091 & 224.836 & 0.904 & 0.493 \\ 60 & 154.13 & 229.764 & 0.904 & 0.492 \\ 70 & 163.177 & 234.679 & 0.905 & 0.491 \\ & & & & \vdots \end{bmatrix}$$



$\left(Z^{\langle 2 \rangle}\right)_i$

$\left(Z^{\langle 1 \rangle}\right)$

$\left(Z^{\langle 2 \rangle}\right)_i$



$\left(\left(Z^{\langle 3 \rangle}\right)_i\right)^2 + \left(\left(Z^{\langle 4 \rangle}\right)_i\right)^2 - u^2 - v^2$

$\left(Z^{\langle 0 \rangle}\right)_i$

$\max\left(\left(\left(Z^{\langle 3 \rangle}\right)\right)^2 + \left(\left(Z^{\langle 4 \rangle}\right)\right)^2\right) - u^2 - v^2 = 3.5527136788005 \cdot 10^{-15}$

$\min\left(\left(\left(Z^{\langle 3 \rangle}\right)\right)^2 + \left(\left(Z^{\langle 4 \rangle}\right)\right)^2\right) - u^2 - v^2 = -7.32747196252603 \cdot 10^{-15}$