$$x \coloneqq -1000$$

$$y \coloneqq 2000$$

$$u \coloneqq 0.8$$

$$v \coloneqq 0.5$$

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

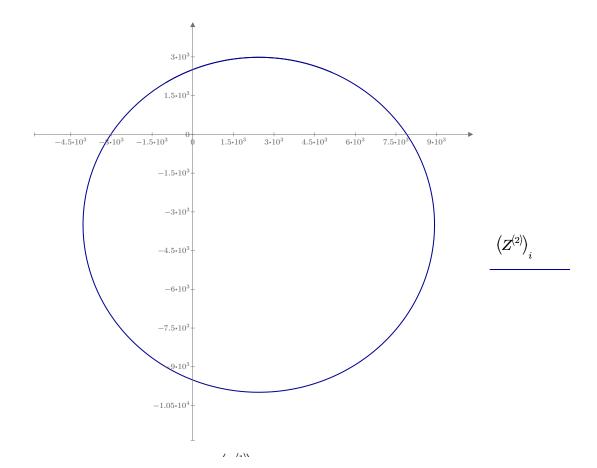
$$D(t,z) \coloneqq egin{bmatrix} z & z \ z & z \ z & z \ 2 \cdot \Omega \cdot z & z \ -2 \cdot \Omega \cdot z & z \end{bmatrix}$$

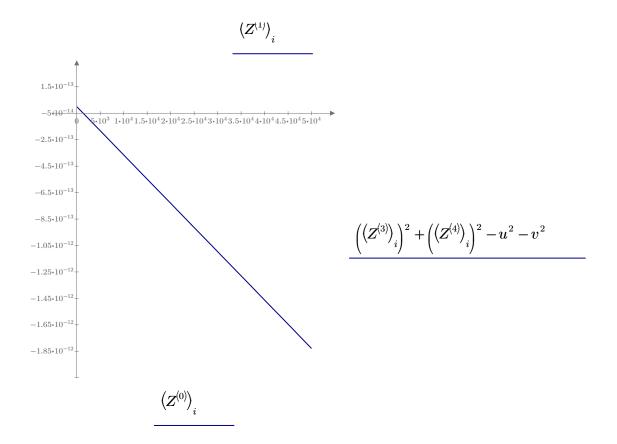
$$Z \coloneqq \text{rkfixed}(z, 0, 50000, 1000, D) =$$

$$i \coloneqq 0 \dots \text{rows}(Z) - 1$$

$$\Omega \coloneqq \frac{\pi}{12 \cdot 60 \cdot 60}$$

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





$$\begin{split} & \max\left(\left(\left(Z^{\!(3)}\right)\right)^2 + \left(\left(Z^{\!(4)}\right)\right)^2\right) - u^2 - v^2 = 0 \\ & \min\left(\left(\left(Z^{\!(3)}\right)\right)^2 + \left(\left(Z^{\!(4)}\right)\right)^2\right) - u^2 - v^2 = -1.82909243306995 \cdot 10^{-12} \end{split}$$