$$\begin{array}{ll} m \coloneqq 1 \\ l \coloneqq 1 & v_0 \coloneqq 2 \boldsymbol{\cdot} \sqrt{g \boldsymbol{\cdot} l} \end{array}$$

$$g\!\coloneqq\!9.80665$$
 
$$a\!\coloneqq\!l$$

$$v_0 = 0$$

$$k = 0.3$$

$$\varphi_0 \coloneqq \frac{\pi}{180} \cdot 10$$

$$y \coloneqq \begin{bmatrix} v_0 \\ \varphi_0 \end{bmatrix}$$

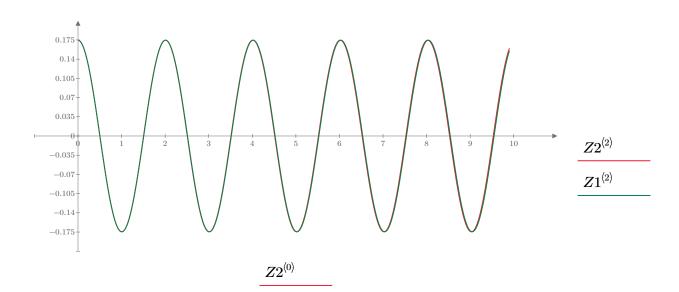
$$y \coloneqq \begin{bmatrix} v_0 \\ \varphi_0 \end{bmatrix} \qquad \qquad D1\left(t,y\right) \coloneqq \begin{bmatrix} -w_0^2 \cdot \sin\left(y_1\right) - k \cdot y_0 + a \cdot \sin\left(w_1 \cdot t\right) \\ y_0 \end{bmatrix}$$

$$Z1 \coloneqq \text{rkfixed} ($$

 $w_0$ :=

$$D2(t,y) \coloneqq \begin{bmatrix} -w_0^2 \cdot y_1 - k \cdot y_0 \\ y_0 \end{bmatrix}$$

$$Z2 = \text{rkfixed}$$



 $Z1^{\langle 0 
angle}$