

$$\begin{array}{l}m:=1\\l:=1\end{array}$$

$$v_0:=2\cdot\sqrt{g\cdot l}$$

$$\begin{array}{l}g:=9.80665\\a:=l\end{array}$$

$$\begin{array}{l}v_0:=0\end{array}$$

$$\begin{array}{l}a:=0\\k:=0.3\end{array}$$

$$w_0:=$$

$$\varphi_0:=\frac{\pi}{180}\cdot 80$$

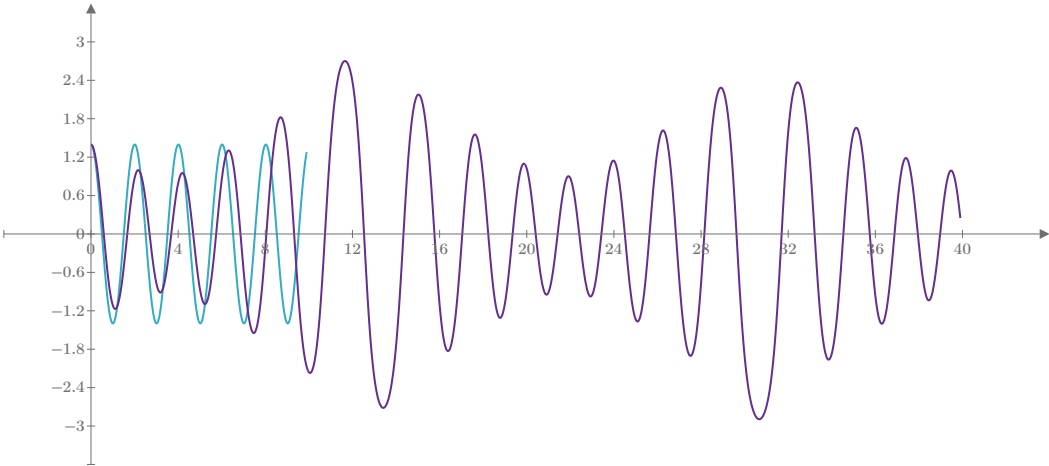
$$y:=\begin{bmatrix}v_0\\\varphi_0\end{bmatrix}$$

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

$$Z1:=\text{rkfixed}(\,$$

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

$$Z2:=\text{rkfixed}(\,$$



$$\begin{array}{l}\hline Z2^{(2)}\\Z1^{(2)}\end{array}$$

$$\begin{array}{l}\hline Z2^{(0)}\\Z1^{(0)}\end{array}$$

