

$$m:=1$$

$$l:=1\qquad v_0:=2\cdot\sqrt{g\cdot l}$$

$$g:=9.80665$$

$$a:=l$$

$$v_0:=0$$

$$w_0:=$$

$$k:=0.3$$

$$\varphi_0:=\frac{\pi}{2}$$

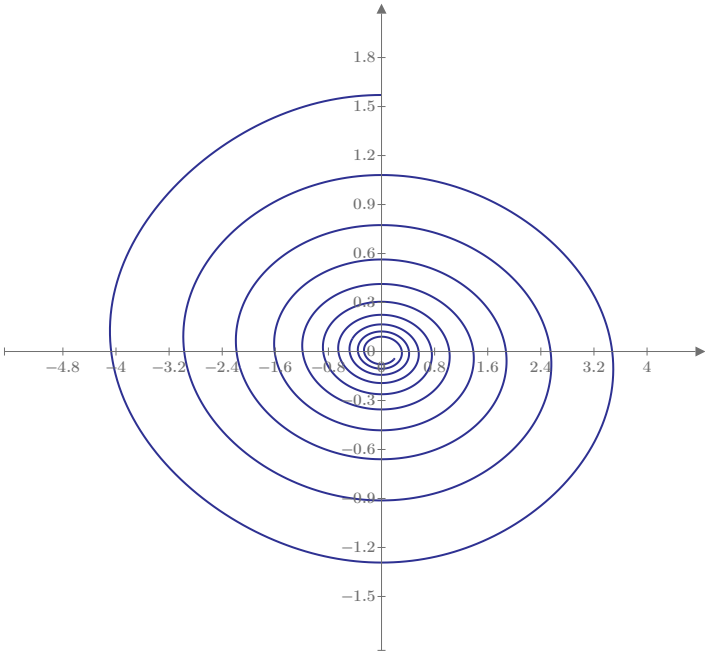
$$y:=\begin{bmatrix} v_0 \\ \varphi_0 \end{bmatrix}$$

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

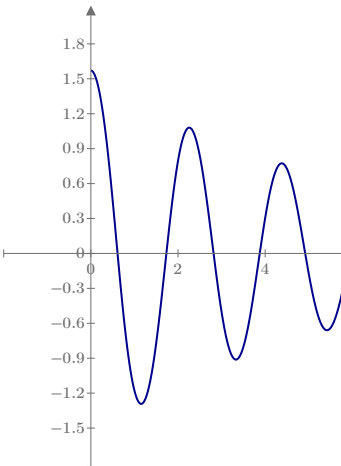
$$Z1:=\text{rkfixed}(\,$$

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

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



$$\langle Z1^{(1)}\rangle$$



$$\langle Z1^{(2)}\rangle$$