



$$\dot{\alpha} = \omega$$

$$\dot{\alpha} = \frac{-g \sin \alpha + v_0 \sin t \cdot \sin \alpha}{L}$$

$$\ddot{\alpha} = \frac{g - \frac{v_0^2}{L} \sin^2 \alpha}{mL} = -g \sin \alpha + v_0 \sin t$$

Zustand dazugeh

$$g = 9.81$$

$$\alpha_0 = 0$$

$$L = 1.0$$

$$\omega_0 = 0$$

$$m = 1.0$$

$$s = 1$$

$$L = 0.9$$

$$e_0 = 0$$

$$v_0 = 1.2$$

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