



$$M \frac{d^2 y}{dt^2} + k y = 0$$

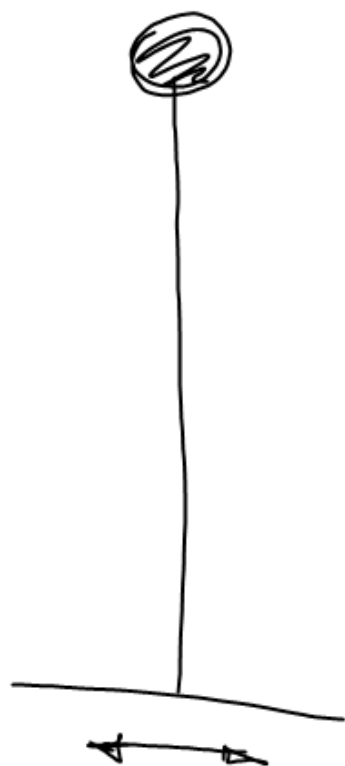
EDO(2) LCC H.

$$m^2 + \frac{k}{M} = 0$$

$$m^2 = -\frac{k}{M}$$

$$m = \pm \sqrt{-\frac{k}{M}} i$$

$$y = C_1 \cos\left(\sqrt{\frac{k}{M}} t\right) + C_2 \sin\left(\sqrt{\frac{k}{M}} t\right)$$



$$\frac{d^2 y}{dt^2} + R_1 y = F \sin(\omega t)$$

EDO(2) LCC NH

$$y(0) = 0$$

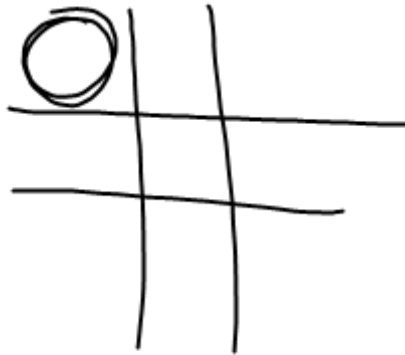
$$y'(0) = 0$$

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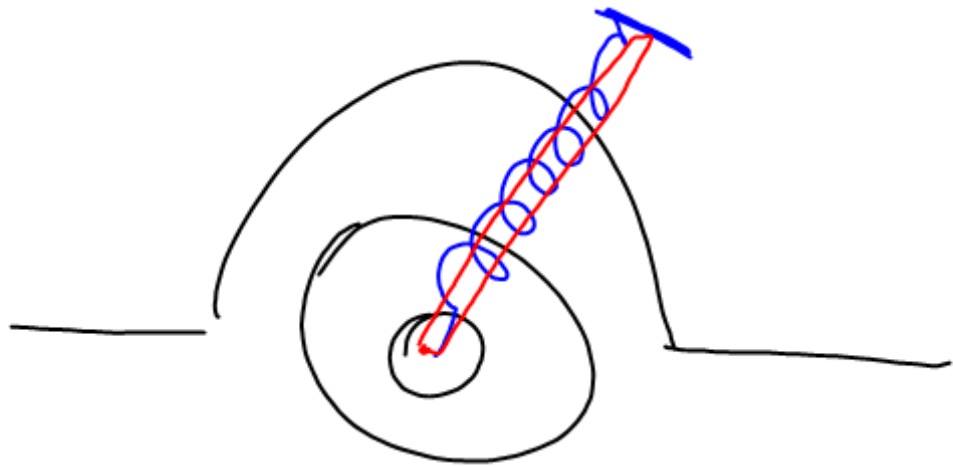
$$\frac{d^2 y}{dt^2} + 9y = 10 \sin(3t).$$

$$y(0) = 0$$

$$y'(0) = 0$$

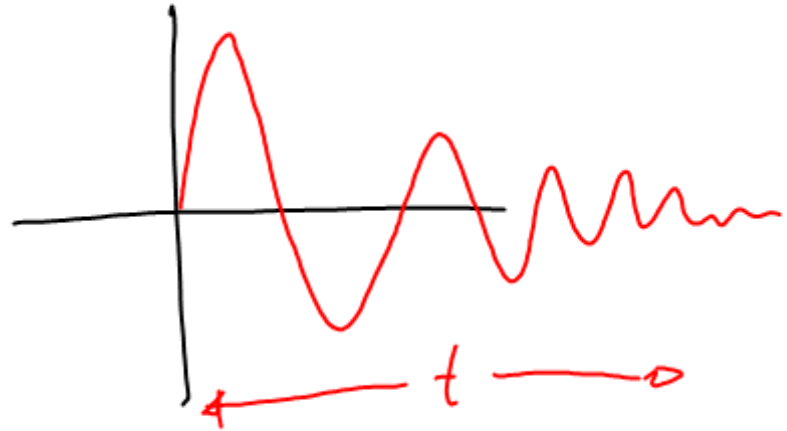






$$m \frac{d^2 s}{dt^2} = \sum F$$

$$= -Hs - R \frac{ds}{dt}$$



$$m \frac{d^2 s}{dt^2} + R \frac{ds}{dt} + Hs = 0$$

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