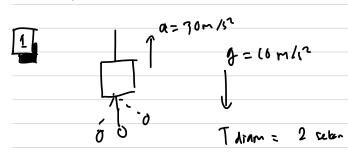
## Latinan Soal 2



$$T_{diam} = 2\pi \sqrt{\frac{L}{g}}$$

$$T_{gerAlc} = 2\pi \sqrt{\frac{L}{q+y}}$$

$$\frac{\int diam}{\int gerak} = \frac{2\pi}{2\pi} \int \frac{\chi}{g}$$

$$\frac{2}{\int gerak} = \int \frac{a+1}{g}$$

$$\frac{2}{\int gerak} = \int \frac{a+1}{g}$$

$$\frac{2}{T \text{ gerak}} = \sqrt{3+1} = \sqrt{4} = 2$$

$$1 = -\frac{1}{2} \left[ 1 \quad \cos \left( \frac{5}{2} \pi t \right) \right]$$

$$-\frac{1}{2} = \cos \left( \frac{5}{2} \pi t \right)$$

$$t = 0.3 \quad dan \quad t = 0.5$$

## Sehingyn

$$y = A \cos(\omega t) = 0.2 \cos(\frac{r}{2}\pi(\omega,3))$$
  
=  $-\frac{\sqrt{2}}{10} = -0.141 \text{ m}$ 

## b. Hitung Spring Constant

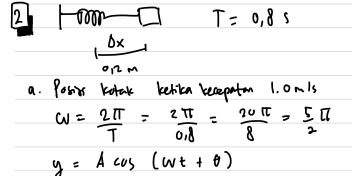
$$\int_{2\pi}^{2\pi} \frac{\omega}{2\pi} = 2\pi \cdot \sqrt{\frac{M}{k}}$$

$$T^{2} = 4\pi^{2} \cdot \frac{M}{k} \longrightarrow k = 4\pi^{2} \cdot \frac{M}{k}$$

$$k = 4\pi^{2} \cdot (0.5) = 4(0)(0.5) \qquad \pi^{2} = 10$$

$$= 20 = 20 = 2000 = 31.15 \cdot N$$

$$(0.8)^{2} = 0.64$$



$$V = -\omega A Sin(\omega f + \theta)$$

SANT  $V = 1 \sim 15$ 

$$\theta = 0$$
 karena saat  $t = 0$ , m lai

Cos akan maksimum sehinga  $\theta = 0$ 

∆x= 0,2 M , t=0;

Tercipta 15 oriax pada defik ke 10 9 Tenfukan

a) T dan osilar yg tercipta

15 orian dalam to define make frekvens:  $= \frac{15}{10} = \frac{3}{2} H_2$   $f = \frac{1}{T} \longrightarrow T = \frac{1}{f} = \frac{2}{3} = 0.0675$ 

b) Kecepaton maksimum dan keranjang

