Exercice 1

$$e^{2ma} = -m\bar{g}$$

$$e^{2ma} = -\bar{g}$$

$$e$$
 $a' = -\overline{g}$

$$\vec{a} = \frac{d\vec{v}}{dt}$$
. On primitive

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$$-\frac{1}{2}g^{2}+h=0$$

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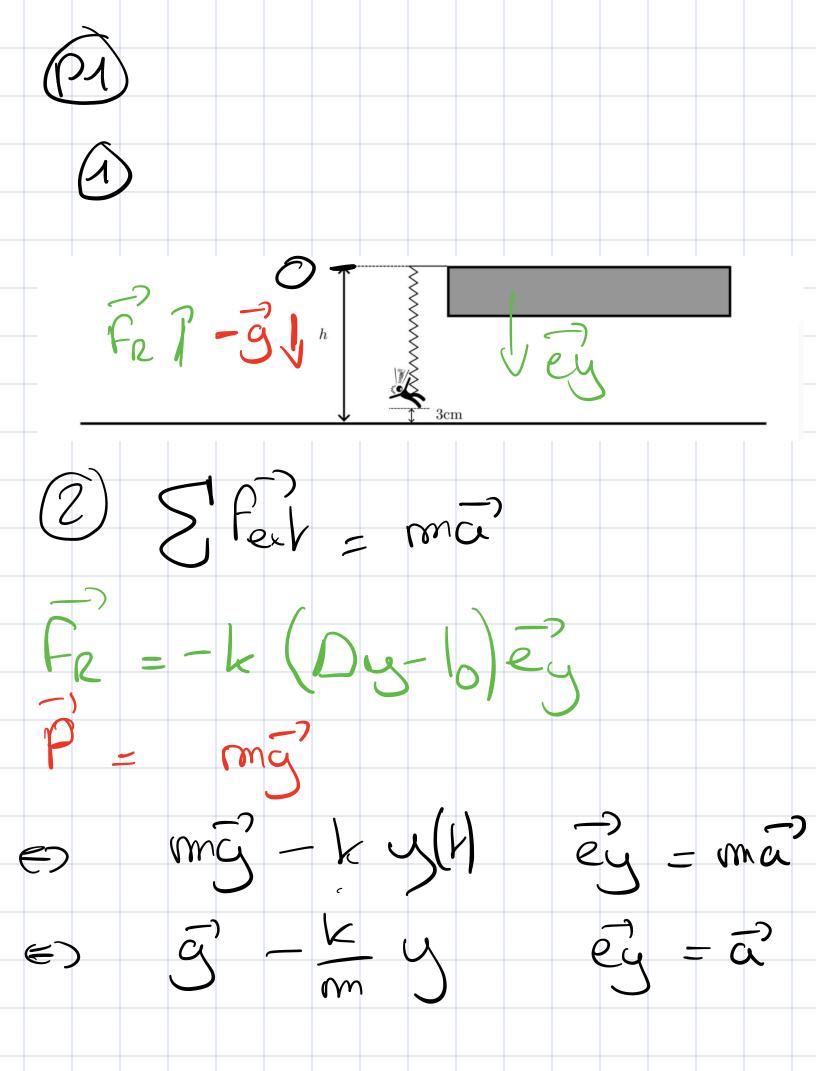
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on primitive:

$$\vec{a} = \frac{d\vec{v}}{dk}$$
 $\vec{v}y = \vec{g}k - \frac{k}{m}k \mathcal{D}y\vec{e}y$
 $\vec{y} = \frac{1}{2}\vec{g}k^2 - \frac{1}{2}\frac{k}{m}k^2 \mathcal{D}y\vec{e}y$

Vy = $k(g - \frac{k}{m}\mathcal{D}k)$

E (3- K Dl)

Soil
$$E = 0$$
 soil

 $g = \frac{L}{m} \Omega U$
 $g = \frac{L}{m} \Omega U$

$$=\frac{-k}{m}y+g$$

$$w = \sqrt{\frac{k}{m}} \qquad b = a$$

$$=-\omega^2\left(3-\frac{b}{\omega^2}\right)$$

$$U = U - \frac{b}{w^2}$$

$$\dot{\mathbf{U}} = -\mathbf{V}^2 \mathbf{U}$$

$$i(t) = -Cwsn(wt, 40)$$
 $i(t) = -Cwsn(wt, 40)$
 $i(t) = -Cwscos(wt, 40)$
 $i(97) = 0$
 $i(0) = 0$
 $i(0$

$$\frac{\dot{y}(1) = -Cw8in(wt + y_0)}{cw8in(wb) = 0}$$

$$8in(y_0) = 0$$

$$-C = \frac{b}{w^2}$$

$$-C = \frac{b}{w^2}\cos(wt) + \frac{b}{w^2}$$

$$= \frac{-a}{w^2}(\cos(wt) + 1)$$

$$= 9 \times \frac{m}{k} \left(-\cos\left(\sqrt{\frac{k}{m}}\right) + 1\right)$$

$$\frac{29}{k} \times \frac{m}{k} = 9 \text{ max}$$

$$\frac{29}{k} = 1 - 29 \text{ max}$$

$$\frac{29}{k} \times \frac{m}{k} = 1 - 29 \text{ max}$$

$$\frac{29}{k} \times \frac{m}{k} = \frac{1}{100}$$

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