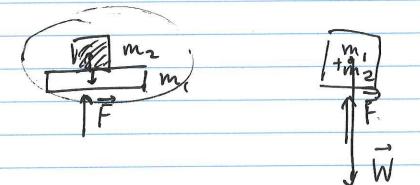
TopHat

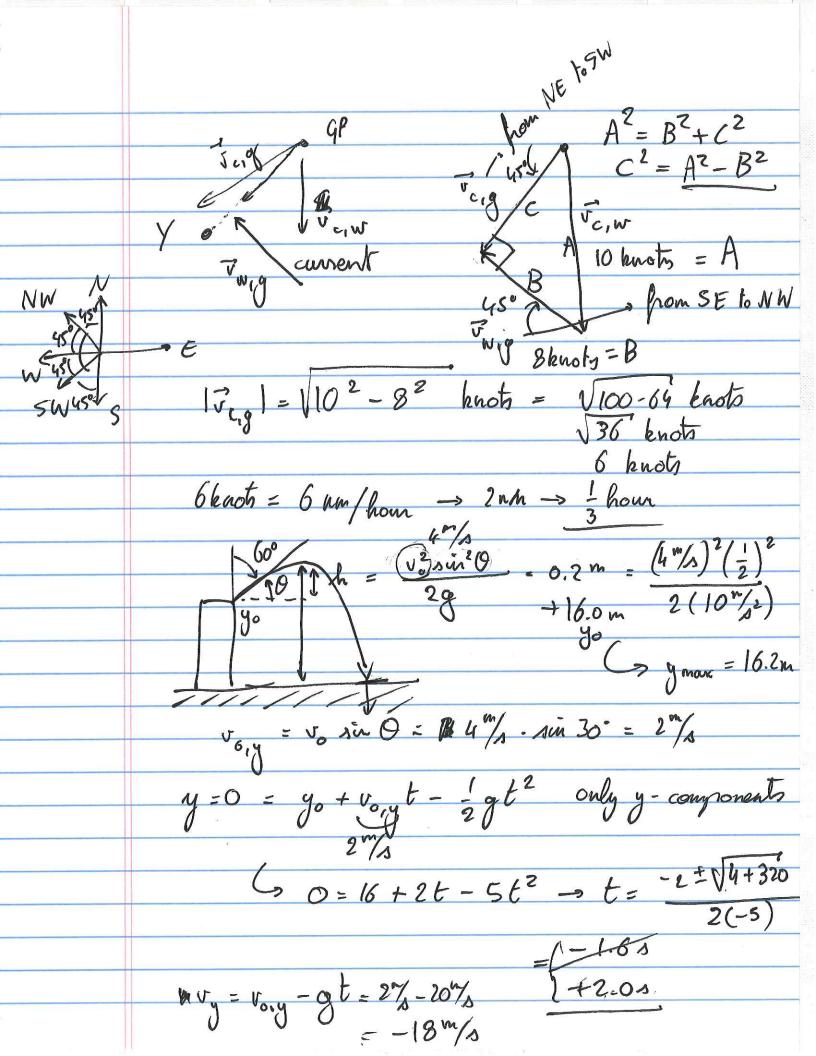


Fret =
$$\vec{F} + \vec{N}$$

Fret; $\vec{g} = \vec{F} - (m_1 + m_2) \vec{g}$
 $\vec{g} = \vec{g} + \vec$

$$N = Ftray$$
, lottle $glaros$
 $N = Vtray$, lottle $N = Vtray$
 N

 $m_2 a = M F_{\text{tray, lottle}} - 20N$ 2kg. 2m/2 $4N \longrightarrow F_{\text{tray, lottle}} = 4N + 20N = 24N$



$$h = \frac{v_{2}^{2} \sin 60^{\circ}}{2g} = \frac{(4^{m/3})^{2} (\frac{\sqrt{3}}{2})^{2}}{2g} = 0.6 \text{ mm}$$

$$2g = \frac{\sqrt{3} \sin 60^{\circ}}{\sqrt{3}} = \frac{16.0 \text{ m} + 0.6 \text{ m}}{\sqrt{3}}$$

$$y = 0 = \frac{16.0 \text{ m} + 2\sqrt{3} \frac{m}{3}}{2} + \frac{16.6 \text{ m}}{2}$$

$$y = 0 = \frac{16.0 \text{ m} + 2\sqrt{3} \frac{m}{3} + \frac{1}{2} + \frac{16.6 \text{ m}}{2(-5\sqrt{3})^{2}}$$

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$$y = \frac{16.0 \text{ m$$

* Spanifational force in airular motion.

$$a_{c} = 7\omega^{2} \implies F_{c} = F_{q} = G \xrightarrow{M_{1}} \xrightarrow{M_{1}} Z = ma_{2}$$

$$F_{c} = G \xrightarrow{M_{2}} \xrightarrow{R_{2}} x_{2} \implies a_{c} = \frac{F_{q}}{m_{W}}$$

$$r_{E} = G380 \text{ km} \qquad G = 6.673 \times 10^{-11} \xrightarrow{N_{W}^{2}}$$

$$M_{E} = 5.98 \times 10^{-24} \text{ kg}$$

$$a_{c} = G \xrightarrow{M_{2}} \xrightarrow{M_{2}} x_{2} \implies a_{c} = \frac{M_{2}}{m_{W}}$$

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