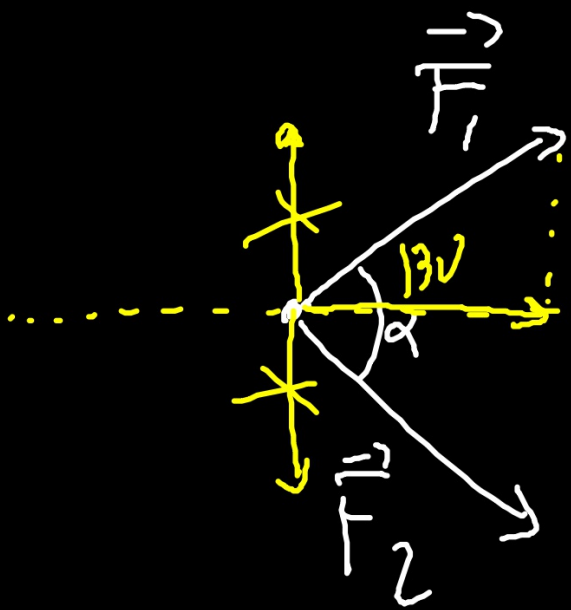


$$\vec{F} = m \vec{a}$$



$$\alpha = 60^\circ$$

$$|\vec{F}_1| = |\vec{F}_2|$$

$$F_{1,0} = F_1 \cdot \cos 30^\circ$$

$$F_{2,0} = F_2 \cos 30^\circ$$

$$\cos 30^\circ = \frac{\sqrt{3}}{2}$$

$$\begin{aligned} F_{\parallel} &= F_1 \underbrace{\cos 30^\circ}_{\frac{\sqrt{3}}{2}} + F_2 \underbrace{\cos 30^\circ}_{\frac{\sqrt{3}}{2}} \\ &= F \frac{\sqrt{3}}{2} + F \frac{\sqrt{3}}{2} = F \cdot \sqrt{3} \end{aligned}$$

$$P \quad \downarrow \quad m \quad a = g = 9,8 \frac{m}{s^2}$$

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$$P = m \cdot g$$

