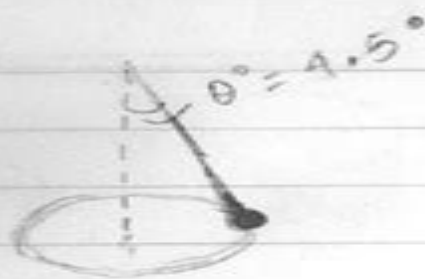


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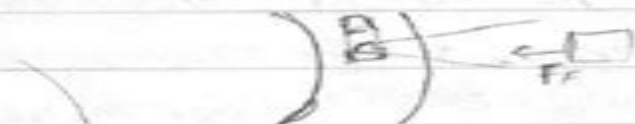


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$$\begin{aligned} \text{Vertical } F_T &= F_T \cos \theta = mg = \\ &= \text{FT} \cos 829.1 \text{ N} \\ F_T &= 831.644 \text{ N} \\ F_T \sin \theta &= 65.3 \text{ N} \end{aligned}$$

$$\text{radial acceleration} = \left[\frac{F_T \sin \theta}{m} \right] = 0.771 \text{ m/s}^2$$

Q5



$$\Sigma F = ma = \frac{mv^2}{r} = F_f \text{ (between crate and truck)}$$

• m - mass of crate

$$v^2 = \frac{F_f r}{m}$$

$$v = \sqrt{\frac{\mu_s mg r}{m}}$$

$$\left[v = \sqrt{\mu_s g r} \right]$$

$$= \sqrt{160.5505}$$

$$= 12.67 \text{ m/s}$$

$$\approx \underline{\underline{12.7 \text{ m/s}}}$$

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