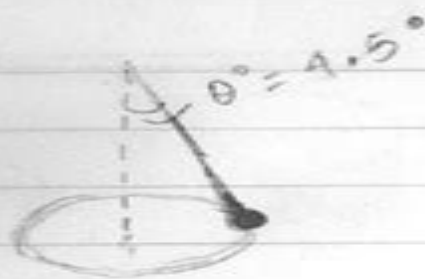


Q9



Date / /

$$\text{Vertical } F_T = F_T \cos \theta = mg =$$

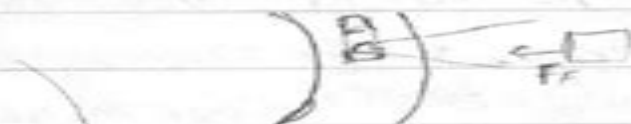
$$= F_T \cos 829.1 \text{ N}$$

$$F_T = 831.644 \text{ N}$$

$$F_T \sin \theta = 65.3 \text{ N}$$

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

Q5



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

•  $m$  - mass of crate

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

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

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

$$= \sqrt{160.5505}$$

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

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

# Lon Capa Physics Solutions Manual

**Emil Faure, Yurii Tryus, Tero  
Vartiainen, Olena Danchenko, Maksym  
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