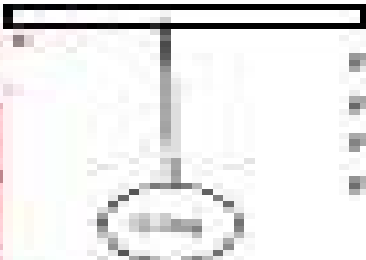


Free Particle Model Worksheet 2:

Quantitative Force Analysis & Vector Components

Worked example right, with the procedure for all problems:

1. Determine what forces are present in each system. Draw a force diagram, finding explicit features relating to the problems.
 (Case A = ball suspended between cables; Case B = ball suspended by two cables)

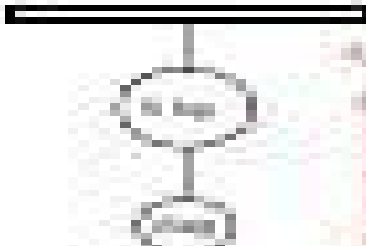


$F_{\text{cable}} = F_g = 100 \text{ N}$
 $F_{\text{cable}} = 10 \text{ kg} \times 10 \text{ m/s}^2 = 100 \text{ N}$
 $F_g = 10 \text{ kg} \times 10 \text{ m/s}^2 = 100 \text{ N}$
 $F_g = 100 \text{ N}$



$2F_{\text{cable}} = F_g = 100 \text{ N}$
 $2F_{\text{cable}} = 10 \text{ kg} \times 10 \text{ m/s}^2 = 100 \text{ N}$
 $2F_{\text{cable}} = 10 \text{ kg} \times 10 \text{ m/s}^2 = 100 \text{ N}$
 $F_{\text{cable}} = 50 \text{ N}$

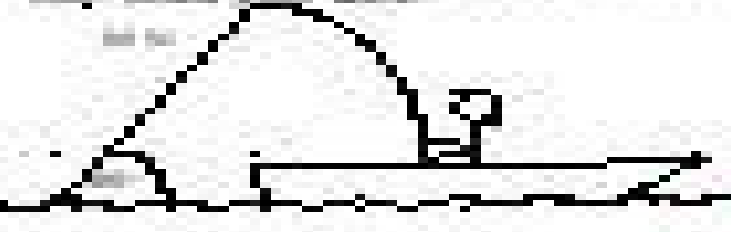
2. Determine forces in each cable



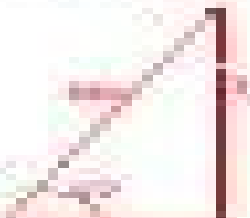
Ball on cables:
 $F_{\text{cable}} = F_g = 100 \text{ N}$
 $F_{\text{cable}} = 10 \text{ kg} \times 10 \text{ m/s}^2 = 100 \text{ N}$
 $F_g = 10 \text{ kg} \times 10 \text{ m/s}^2 = 100 \text{ N}$
 $F_g = 100 \text{ N}$

Top right:
 $F_{\text{cable}} = F_{\text{cable}} + F_g = 100 \text{ N}$
 $F_{\text{cable}} = 10 \text{ kg} \times 10 \text{ m/s}^2 = 100 \text{ N}$
 $F_{\text{cable}} = 10 \text{ kg} \times 10 \text{ m/s}^2 = 100 \text{ N}$
 $F_{\text{cable}} = 100 \text{ N}$

3. Find the horizontal and vertical components of the forces in the hanging rope. Show your work.



30°



$\sin(30^\circ) = \frac{F_{\text{cable}}}{F_g}$
 $F_{\text{cable}} = \sin(30^\circ) \times (10 \text{ kg} \times 10 \text{ m/s}^2) = 50 \text{ N}$
 $\cos(30^\circ) = \frac{F_g}{F_g}$
 $F_g = \cos(30^\circ) \times (10 \text{ kg} \times 10 \text{ m/s}^2) = 86.6 \text{ N}$

Particle Model Quantitative Force Analysis Answers

L Reisser



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