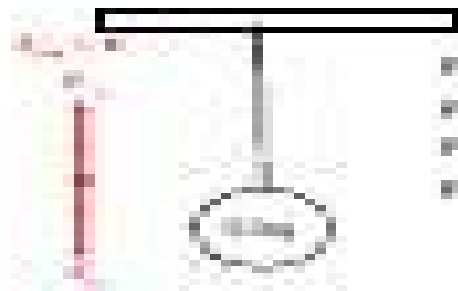


## Free Particle Model Worksheet 2:

## Quantitative Force Analysis &amp; Vector Components

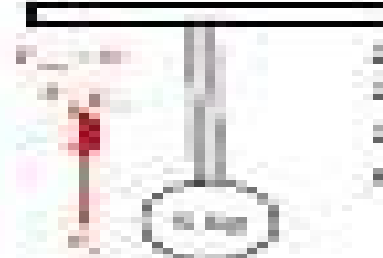
Worked example right, will be provided for all problems.

1. Determine the tension in each cable below. Draw a force diagram for the system before solving these problems.  
 Case A: ball suspended between cables. Case B: ball suspended by two cables.



Case A: ball suspended between cables

$F_{\text{cable}} = F_g = 100 \text{ N}$   
 $F_{\text{cable}} = 100 \text{ N}$   
 $F_g = \text{mass}(\text{ball}) \times g = 10 \text{ kg} \times 10 \text{ m/s}^2 = 100 \text{ N}$   
 $F_{\text{cable}} = 100 \text{ N}$



Case B: ball suspended by two cables

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

2. Determine tension in each cable.

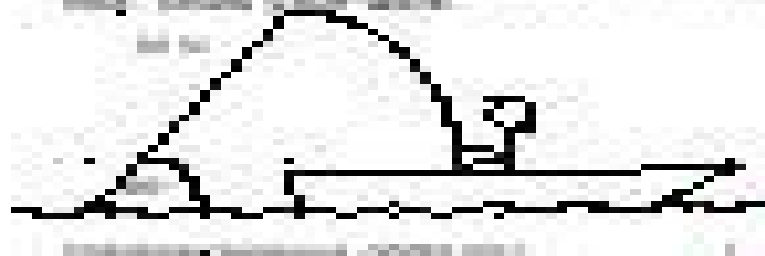


Problem 2: ball suspended by two cables

$F_{\text{cable1}} = F_{\text{cable2}} = 100 \text{ N}$   
 $F_{\text{cable1}} = 100 \text{ N}$   
 $F_{\text{cable2}} = \text{mass}(\text{ball}) \times g = 10 \text{ kg} \times 10 \text{ m/s}^2 = 100 \text{ N}$   
 $F_{\text{cable1}} = 100 \text{ N}$

Diagram showing the ball and the two cables. The left cable is vertical, and the right cable is at an angle of 30 degrees to the vertical. The ball is labeled 10 kg.

3. Find the horizontal and vertical components of the tension in the string. Show your work.



Problem 3: ball suspended by a string

$F_{\text{cable}} = 100 \text{ N}$   
 $F_{\text{cable}} = 100 \text{ N}$   
 $F_g = \text{mass}(\text{ball}) \times g = 10 \text{ kg} \times 10 \text{ m/s}^2 = 100 \text{ N}$   
 $F_{\text{cable}} = 100 \text{ N}$

Diagram showing the ball and the string. The string is at an angle of 30 degrees to the horizontal. The ball is labeled 10 kg.

$\sin(30^\circ) = \frac{T_v}{100 \text{ N}}$   
 $T_v = \sin(30^\circ) \times 100 \text{ N} = 50 \text{ N}$   
 $\cos(30^\circ) = \frac{T_h}{100 \text{ N}}$   
 $T_h = \cos(30^\circ) \times 100 \text{ N} = 86.6 \text{ N}$

# Modeling Workshop Project 2020 Balanced Force Model

**Jianjun Gao**



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