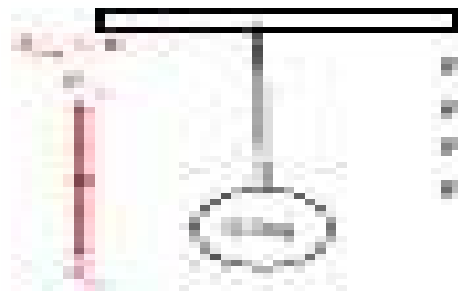


Free Particle Model Worksheet 2:

Quantitative Force Analysis & Vector Components

Worked example right, will be provided for all problems.

1. Decompose that 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.



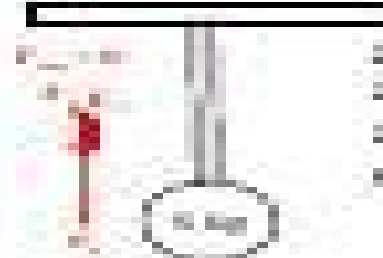
Case A: ball suspended between cables

Force diagram:

$$F_1 = F_2 = 100\text{ N}$$

$$F_1 = mg = 100\text{ N}$$

$$F_2 = \text{tension} = 100\text{ N}$$

$$F_3 = 100\text{ N}$$


Case B: ball suspended by two cables

Force diagram:

$$2F_1 = F_2 = 100\text{ N}$$

$$2F_1 = mg = 100\text{ N}$$

$$2F_1 = \text{tension} = 100\text{ N}$$

$$F_1 = 50\text{ N}$$

2. Decompose tension in each cable.



Force diagram:

Ball on right:

$$F_{1x} = F_{2x} = 0\text{ N}$$

$$F_{1y} = mg = 100\text{ N}$$

$$F_{2y} = \text{tension} = 100\text{ N}$$

$$F_{3y} = 100\text{ N}$$

Top right:

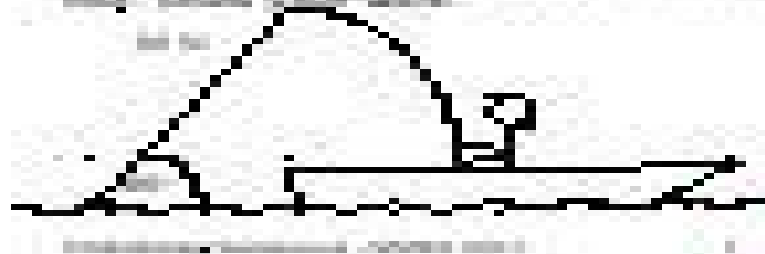
$$F_{1x} = F_{2x} + F_{3x} = 0\text{ N}$$

$$F_{1y} = mg = 100\text{ N}$$

$$F_{2y} = \text{tension} = 100\text{ N}$$

$$F_{3y} = 100\text{ N}$$

3. Draw the force triangle and vertically decompose all the tensions in that picture. Draw a force triangle.



Force diagram:

Ball on right:

$$F_{1x} = F_{2x} = 0\text{ N}$$

$$F_{1y} = mg = 100\text{ N}$$

$$F_{2y} = \text{tension} = 100\text{ N}$$

Top right:

$$F_{1x} = F_{2x} + F_{3x} = 0\text{ N}$$

$$F_{1y} = mg = 100\text{ N}$$

$$F_{2y} = \text{tension} = 100\text{ N}$$

$$F_{3y} = 100\text{ N}$$

Particle Model Quantitative Force Analysis Answers

Xiaolong Qi



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or l tigrinum it is native to china japan and korea perennial tiger lilies are bulbous perennial flowers meaning they will come back year after year if properly cared for

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