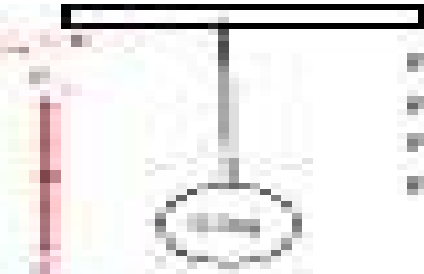


Free Particle Model Worksheet 2:

Quantitative Force Analysis & Vector Components

Worked example right, will be provided for all problems.

1. Decompose each force into its vector notation. Choose a force diagram, finding suitable angles, solving 1-4 problems.
 (Case A = ball suspended vertically; Case B = ball suspended by two cables)

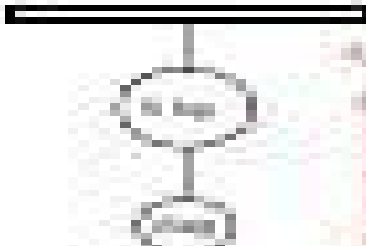


$F_1 = F_2 = 100\text{ N}$
 $F_{1x} = 100\text{ N}$
 $F_{1y} = 100\text{ N}$
 $F_2 = 100\text{ N}$



$2F_1 = F_2 = 100\text{ N}$
 $2F_1 = 100\text{ N}$
 $2F_1 = 100\text{ N}$
 $F_1 = 50\text{ N}$

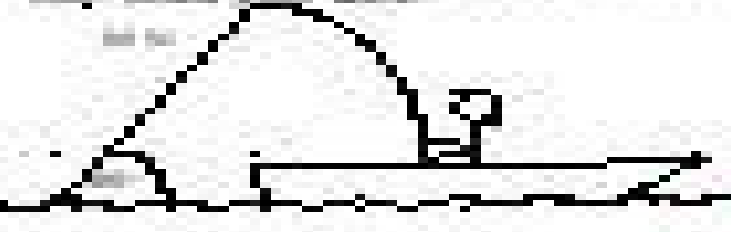
2. Decompose forces in vector notation



Ball is suspended
 $F_1 = F_2 = 100\text{ N}$
 $F_{1x} = 100\text{ N}$
 $F_{1y} = 100\text{ N}$
 $F_2 = 100\text{ N}$

Two cables
 $F_1 = F_2 = 100\text{ N}$
 $F_{1x} = 100\text{ N}$
 $F_{1y} = 100\text{ N}$
 $F_2 = 100\text{ N}$

3. Draw free body diagram and vector components of the forces in the following. Show your work.



$F_1 = 100\text{ N}$
 $F_2 = 100\text{ N}$
 $F_3 = 100\text{ N}$
 $F_4 = 100\text{ N}$

Ramp
 $F_1 = 100\text{ N}$
 $F_2 = 100\text{ N}$
 $F_3 = 100\text{ N}$
 $F_4 = 100\text{ N}$

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RS Peters



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