

# Composition/Resolution of Forces

*Two forces often act simultaneously on a body at the same point. The angle between the two points is between  $0$  and  $180^\circ$ . The resultant of the two forces is a single force that could be substituted for the components without altering their effect. The opposite of this force is called the equilibrant force because it puts the components and their effect (resultant) into a state of equilibrium. This equilibrant is equal in magnitude and opposite ( $180^\circ$ ) to the resultant force.*

Objective: After completing this lab you better be able to calculate the equilibrant of a series of forces (vectors) acting on an object.

Procedure: Arrange the force board (force bar) so that the three spring scales have at least  $1/3$  extension. Place a blank piece of paper under the scales and secure it firmly (tape would be better than nails!) Mark the center of the three forces and draw a vector carefully in the direction of each of the three forces (make sure you have an origin, xy coordinate, so you can measure angles). Mark the force vectors A, B and C (Maybe you should take a break cuz this was really hard- not!) Circle C and consider it your *equilibrant*. Remove the paper and extend the lines until they intersect at a single point (If they don't- do it again until they do). Carefully measure the angles (and record them) and construct a point diagram using these angles and scale values.

## Calculations:

1. Draw (graphically) a vector diagram (applying the rules of vector addition) using the A and B values as components and then draw your resultant.
2. Construct an equilibrant and record its value.
3. Determine the resultant mathematically and record its value. Record the value of the equilibrant (same magnitude as the resultant but  $180^\circ$  opposite).
4. Compare (Absolute and Relative Error) the "C" scale value of your equilibrant to your graphically and mathematically (both magnitude and angle) values. Consider the scale value to be accepted value.

## **DATA TABLE**

Trial	"A" scale	"B" scale	"C" scale	Resultant graphical	Resultant math.	Equilibrant graphical	Equilibrant math.

# Composition And Resolution Of Forces Lab Report

**Huangqi Zhang**



## **Composition And Resolution Of Forces Lab Report:**

## Embracing the Melody of Term: An Psychological Symphony within **Composition And Resolution Of Forces Lab Report**

In a global used by screens and the ceaseless chatter of instantaneous transmission, the melodic beauty and emotional symphony developed by the written term often disappear into the backdrop, eclipsed by the constant noise and disruptions that permeate our lives. But, set within the pages of **Composition And Resolution Of Forces Lab Report** a wonderful literary prize overflowing with natural feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that charming masterpiece conducts readers on a mental journey, skillfully unraveling the hidden melodies and profound influence resonating within each cautiously constructed phrase. Within the depths with this touching assessment, we can examine the book is central harmonies, analyze their enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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