

Forces in Equilibrium Lab Report

Physics

This is an individual assignment. Make sure to clearly document your work.

Imagine you had a force table with the following masses set up: 150g @ 0° ; 220g @ 50° ; 120g @ 280° .

1. Find the mass and angle necessary to create an equilibrant force. Show all of your calculations clearly and neatly. *You should work from the derived equations you generated in the lab protocol; make sure that you document the derivation (this corresponds to step 5 of the protocol).*
2. Using one of the force tables in the back of the room, test your prediction and show your instructor. If your prediction was correct, indicate this in your report. If your prediction was incorrect, find and document any errors in your calculations.