

Pre-lab 6

Consider that you have an object subjected to two opposing forces (F_1 and F_2). Using Interactive physics set up a simulation in which you keep one of these two forces constant and vary the other.

- a) Plot acceleration vs. each of the forces, the sum of the forces and the difference of the forces.
- b) Determine which quantity(ies) determine(s) the acceleration. Explain your answer and how it relates to the graphs you made in part a.
- c) Be certain to explain in detail what you have done in your “experiment” so that we can evaluate its validity and see that it is physically and experimentally reasonable.

