Force and Free Body Diagrams

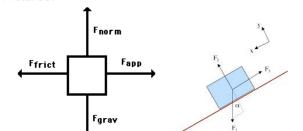
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PART 1: FBDs

Summary: Free body diagrams are diagrams of all the forces acting on an object. Includes Force normal, Gravity, Force net, and Force resistance (friction).

Tips and Tricks: Make your FBD in pencil to avoid permanent mistakes. Be sure to include the angle of the surface your object is sitting on.

Pictures:



You are to include:

- A quick summary
- Tips and Tricks
- Pictures and drawings and graphs and diagrams
- All Formulas
- 2 Examples
- 1-5 Practice problems

Force

F=MASS * ACCELERATION

Newtons Laws

Law 1- Object in motion stays in motion

Inertia- Resistance to change in motion

Law 2- F= ma

Law 3- Every action has an equal and opposite reaction

Forces come in pairs

 $F = G (M_1 M_2 / R^2)$