**Force diagrams and problem solving**

1. Draw the force diagram
2. Sum up the forces in the x and y. Draw the components as needed.

∑Fx =

∑Fy =

Reminder: the sum of the forces = 0 if the object is at rest or moving at a constant velocity.

The sum of forces does not equal zero if the object is accelerating.

1. Fg = -9.8 N/kg \* mass or Fg\_\_ = mass

 -9.8 N

 4. Solve for unknown.

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