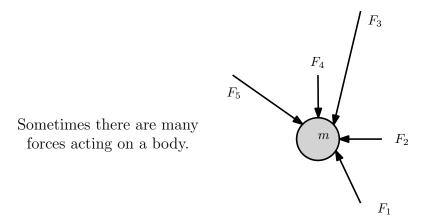
Honors Physics



 F_{3y} $F_{net} = \frac{1}{2}$

To find the net force, we find the sum of the forces using vector addition. Think of this like counting on a number line in two dimensions; rise over run. When you take the sine, you get the y-component or rise. When you take the cosine, you get the x-component or run.

$$F_{\text{net}} = \sum_{i} F_i = F_1 + F_2 + F_3 + F_4 + F_5$$

Whatever the net force is, that is used to understand the acceleration of an object. If you already know the acceleration of an object, then you can say something about the net force acting on it.