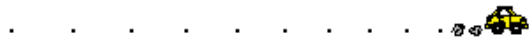
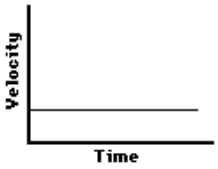
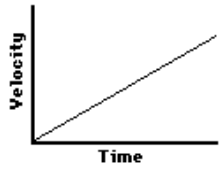
Description of Motion	Net Force: Yes or No?
	See Answer
	See Answer
	See Answer
	See Answer
	See Answer
	See Answer

Force Components

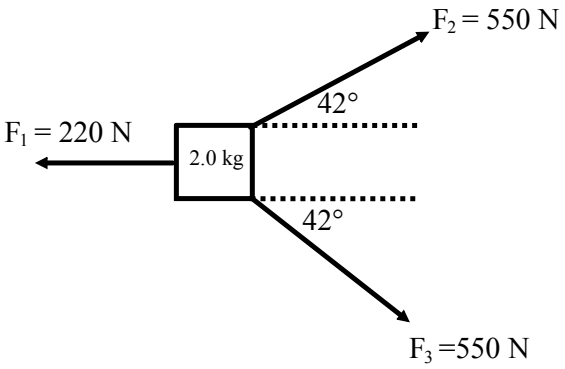
Thus far, forces have co-operated by being either co-linear (same line) or perpendicular (right angles).

To find Fnet when forces are at some angle, we need to turn them into "x" and "y" components using trig.

This is called "resolving the force into components"

Ex: A force of 500 N is directed at an angle of 40° below the horizontal.
Determine the components.

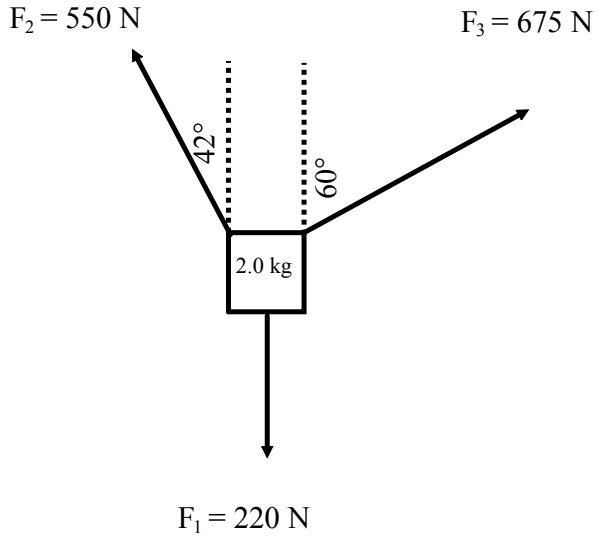
Ex 1: Calculate the net force acting on the mass below.



* we cannot add forces which are at angles
* we must resolve these forces into components
* use a table to keep your work organized

	x	y
F_1		
F_2		
F_3		
F_{net}		

Example 2



	x	y
F_1		
F_2		
F_3		
F_{net}		

Jerome and Michael, linebackers for South's varsity football team, delivered a big hit to the halfback in last weekend's game
Striking the halfback simultaneously from different directions with the following forces. What was the net force?

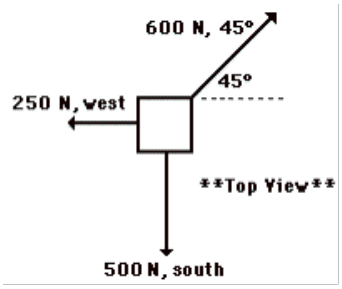
F_{Jerome} = 1230 N at 53° Nof W

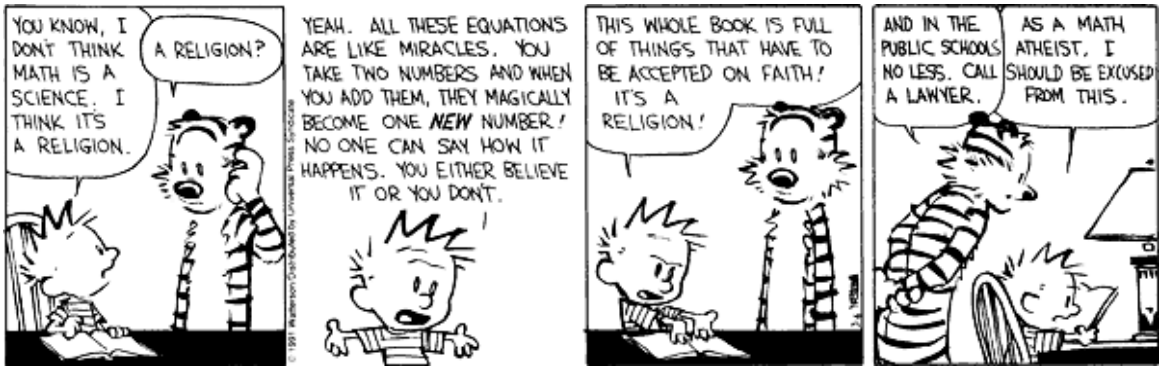
$F_{Michael}$ = 1450 at 17° S of W

A pack of three Arctic wolves are fighting over the carcass of a dead polar bear.

A top view of the magnitude and direction of the three forces is shown in the diagram to the right.

Determine the resultant or net force acting upon the carcass.





Hmwk: Worksheet