**Dynamics Notes**

2 – Forces in 2-D

As with any vectors, forces must be resolved with consideration to both their \_\_\_\_\_\_\_\_\_\_\_\_ **and** \_\_\_\_\_\_\_\_\_\_\_\_.

Ex

Two students push a crate across a frictionless surface.

 Student A pushes with 75 N East and Student B

pushes with 48 N South.

What is the resultant force acting on the box?

If there are more than two forces then it is best to solve for the resultant using the**...**

Ex

Resolve these force vectors into their x and y components and determine the total net force.

F2 = 45 N

50o

F1 = 35 N

20o

F3 = 65 N