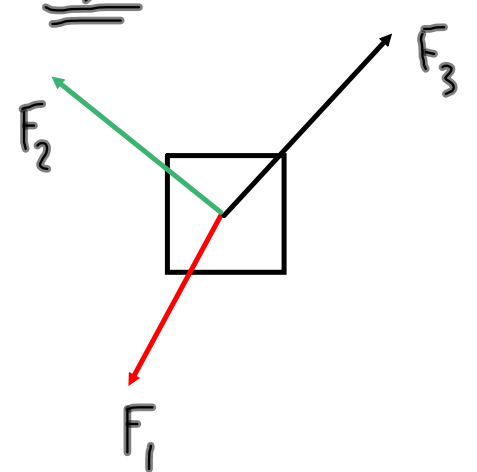
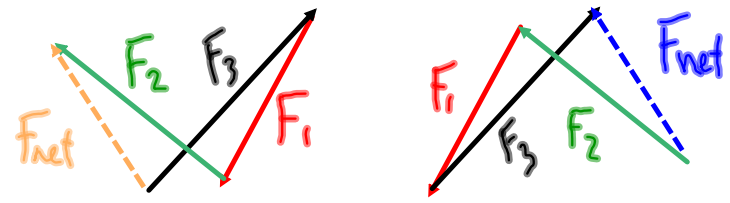


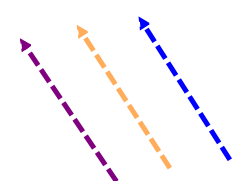
FBD



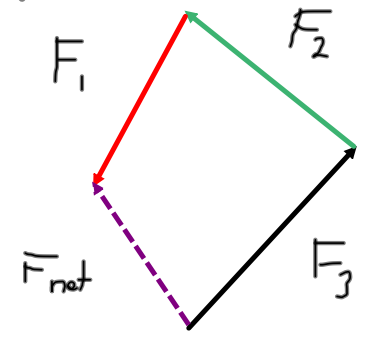
Vector Addition Diagram

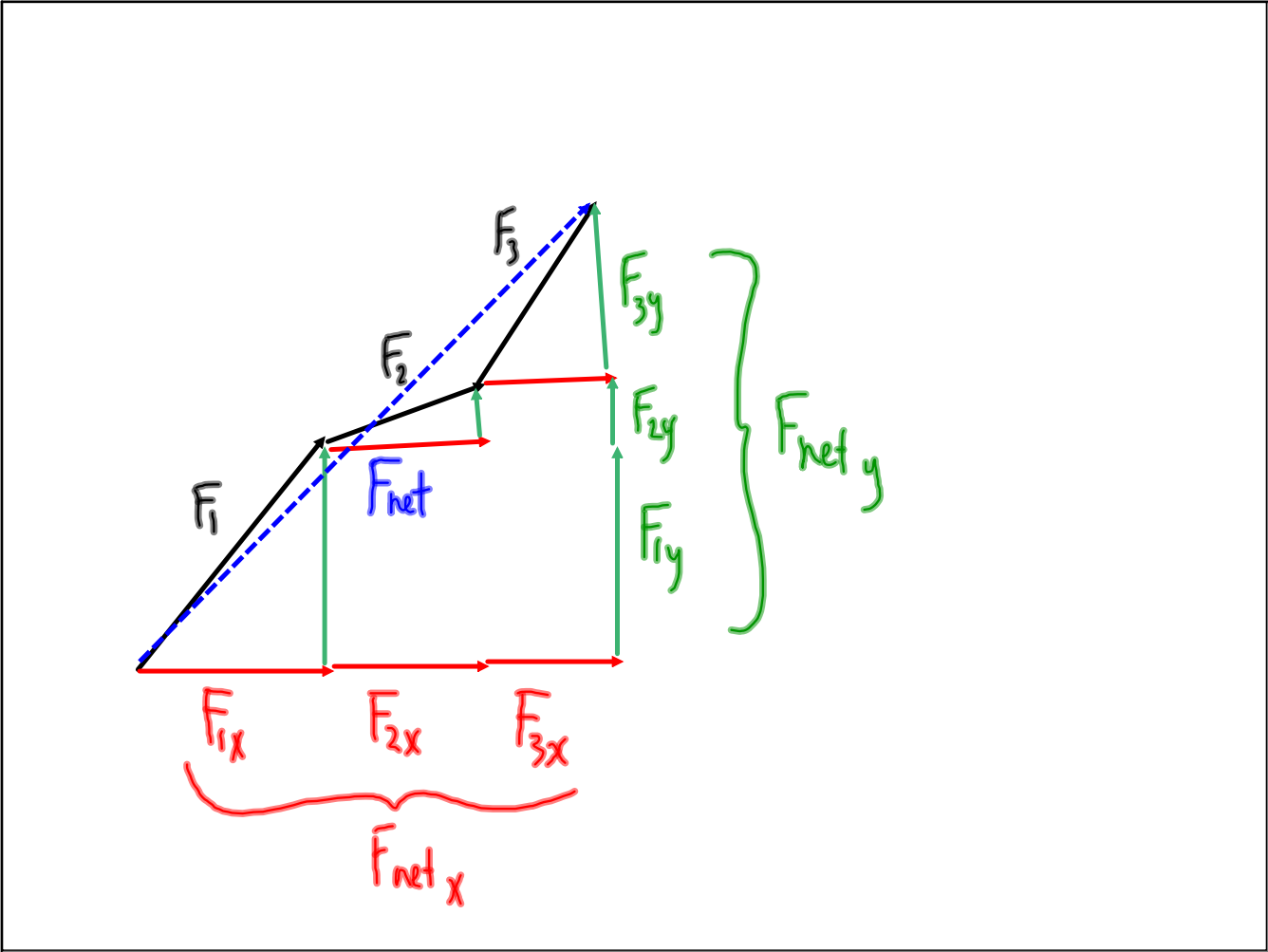


order doesn't matter =>  
you get the same resultant 😊

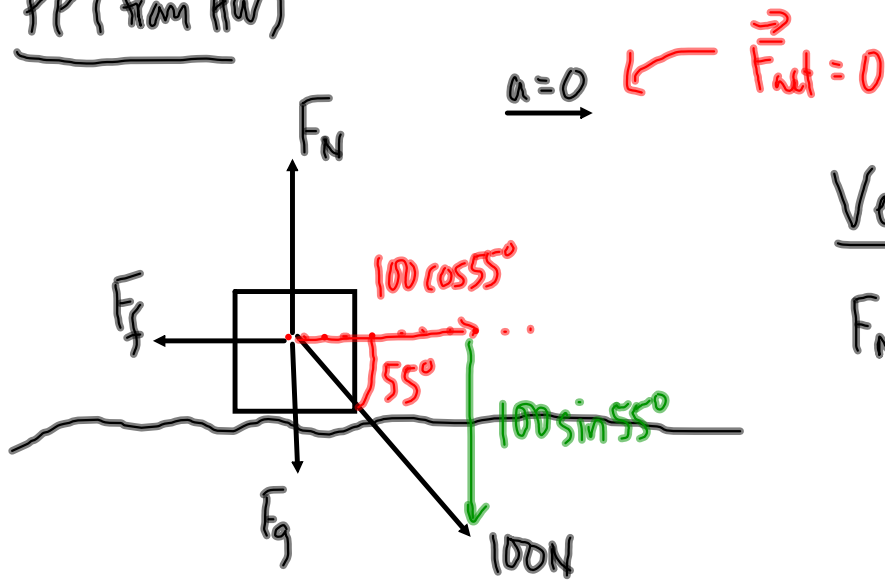


These vectors are all the same!!





PP (from HW)



Vertically:

$$F_N = \underbrace{F_g}_{\text{about zero (light shovel)}} + F_{ay}$$

$$F_N = F_{ay}$$

$$F_N = (100N)(\sin 55^\circ)$$

$$F_N = 82N$$

Horizontally

$$F_f = F_{ax}$$

$$F_f = 100 \cos 55^\circ$$

$$F_f = 57N$$

$$F_f = \mu F_N$$

$$\mu = \frac{F_f}{F_N}$$

$$\mu = \frac{57N}{82N}$$

$$\mu \approx 0.70$$

OR

	X	Y
$F_g$	0	0 $\leftarrow$ light
$F_N$	0	$F_N$
$F_a$	$100 \cos 55$	$100 \sin 55$
$F_f$	$- F_f$	0
$F_{net}$	0	0

## Attachments

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ejs\_murcia\_mech\_SlidingDownAnInclinedPlane.jar