

Cycle 3-4 Net Force & Types of Forces

Review Sheet



The airplane weighs 2,000 N.
 The propeller provides 900 N of Thrust.
 There is 800 N of Drag.
 The wings provide 2,200 N of Lift.

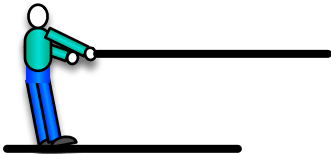
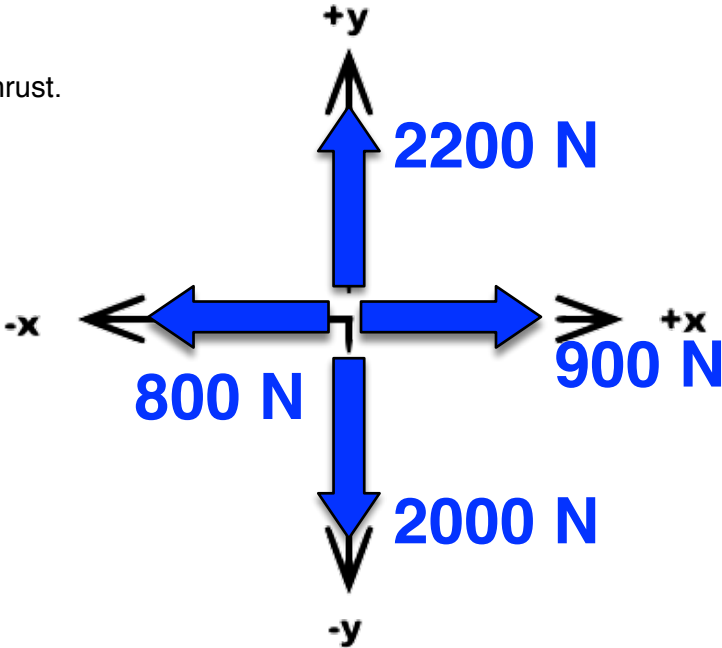
was flying ----->

Fnet	direction
+100 N	x

- ☒ speeding up.
- ☐ constant speed.
- ☐ slowing down.

Fnet	direction
+200 N	y

- ☒ speeding up.
- ☐ constant speed.
- ☐ slowing down.



The person weighs 800 N.
 There is 150 N of tension in the rope.
 There is 150 N of friction at the person's feet.

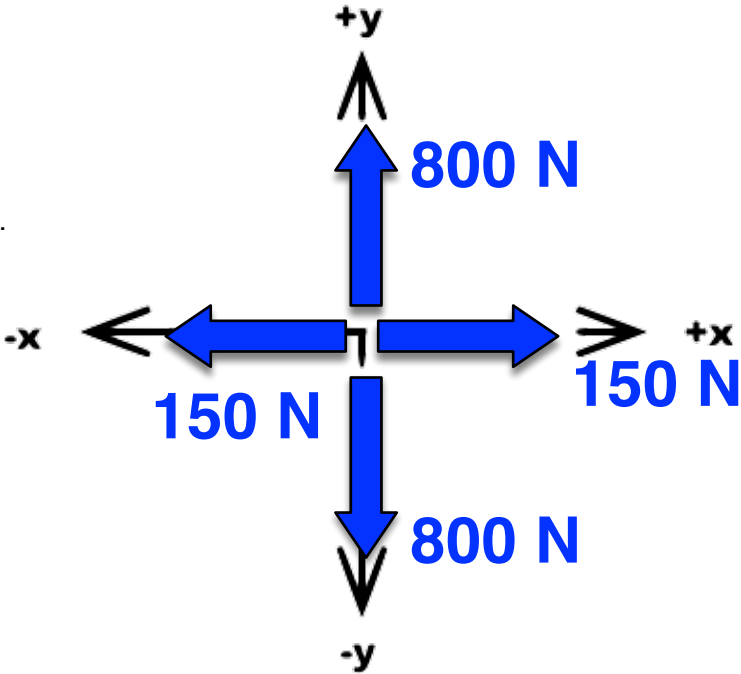
was sliding ----->

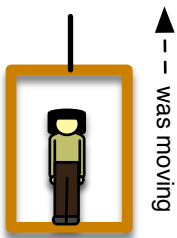
Fnet	direction
0 N	x

- ☐ speeding up.
- ☒ constant speed.
- ☐ slowing down.

Fnet	direction
0 N	y

- ☐ speeding up.
- ☒ constant speed.
- ☐ slowing down.

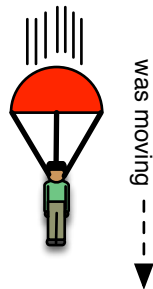
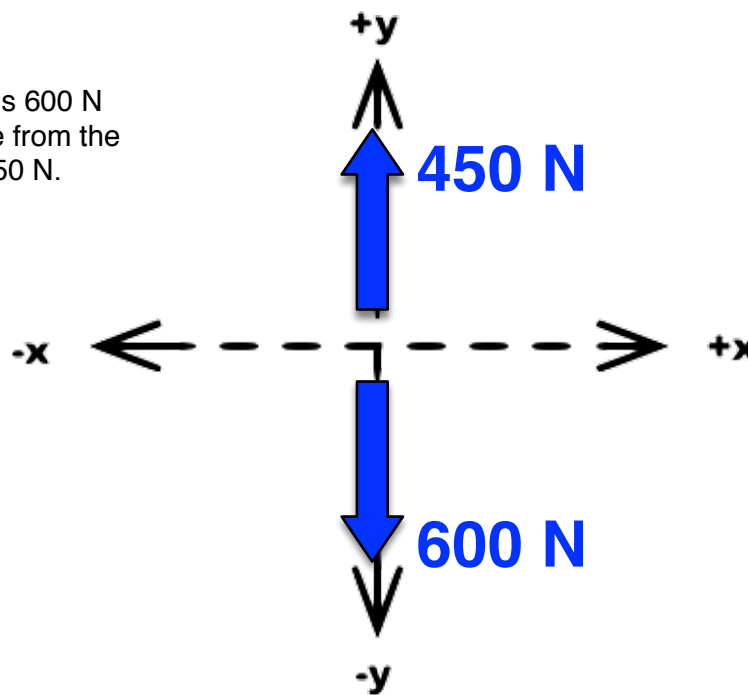




The person weighs 600 N
The Normal Force from the elevator floor is 450 N.

Fnet	direction
-150 N	y

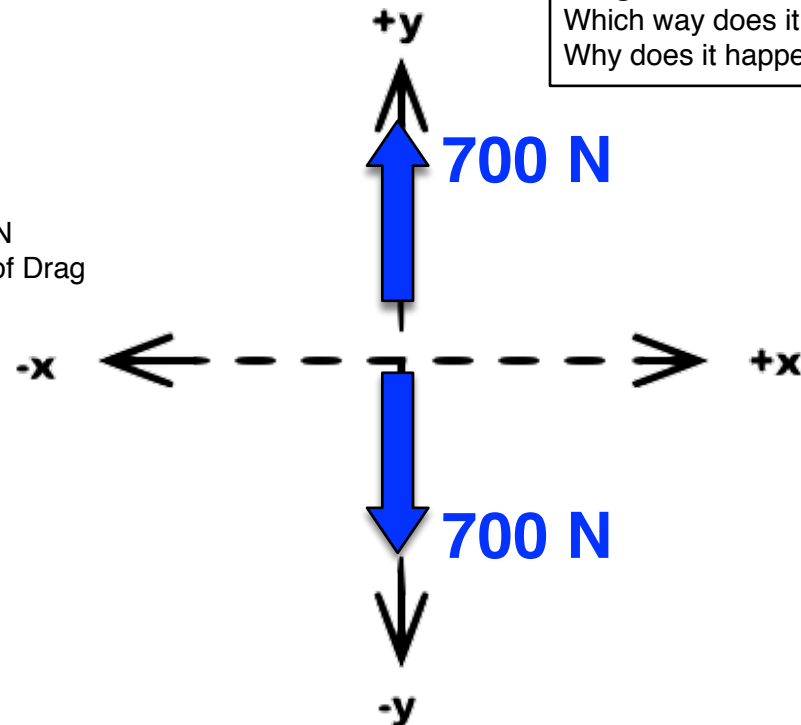
- ☐ speeding up.
- ☐ constant speed.
- ☒ slowing down.



The person weighs 700 N
They experience 700 N of Drag from the air as they fall.

Fnet	direction
0 N	y

- ☐ speeding up.
- ☒ constant speed.
- ☐ slowing down.



FORCES WE TALKED ABOUT

Friction

Which way does it point?
What does it depend on?

Drag

Which way does it point?
What does it depend on?

Tension

Which way does it point?
What's true at both ends?

Normal Force

Which way does it point?
Why does it happen?

Weight

Which way does it point?
Why does it happen?