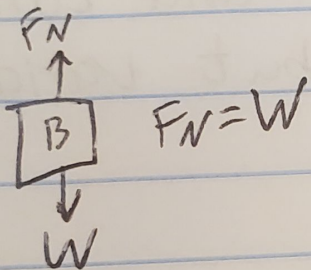


15

1.



~~the~~ no external forces are acting on the box. It is not accelerating.

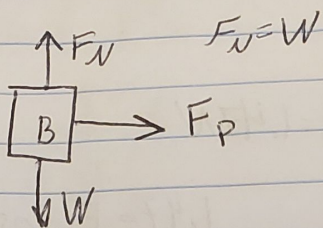
2.

constant velocity = no acceleration

nobody is pushing the box

PHYS 407

3.

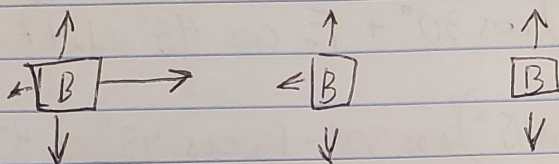


~~acceleration~~ is

the box is ~~acceleration~~ing

4. box is being pushed

5.

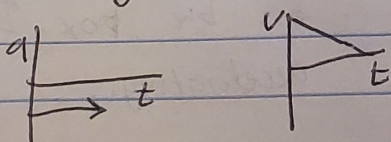


6. when it's being pushed, the force of the push and the force of friction are acting.

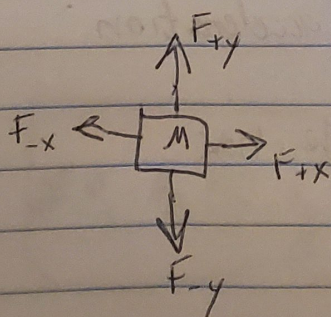
when it stops being pushed the force of friction slows the box down until it stops moving

7.

acceleration is negative and constant
velocity is positive but variable



8.



$$F = ma$$

$$a = \frac{F}{m}$$

$$m = \frac{F}{a}$$

? Newton?