

Ch 2 HW: RC; Sec 2.3 Written; Con Mas Wks Sec 2.1-2.3
Sec 2.3

obj: Define a force.

Force

- A force is a push or pull one object exerts on another.

* A Force can exist btw objects in contact. (Contact Force)

* Objects do not have to be in contact for a force.

* Exist because of fields.

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Types of Forces

1) Balanced Forces

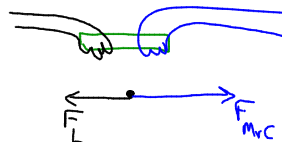
- A set of forces acting on an object which will not cause a change in motion.



* Balanced Forces have to be opposite of each other and equal in size.

2) Unbalanced Forces

- A set of Forces acting on an object that will cause a change in the objects motion.



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3) Net Force

- The sum of all of the Forces acting on the object.

* Vector Sum!!



$$F_h + (-F_g) = 0$$

$$F_{net} = 0$$

* No Change in Motion



$$F_{mrc} + F_L = ? (+)$$

$$\text{Net Force} = (+)$$

* A Net Force will always cause an acceleration.

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