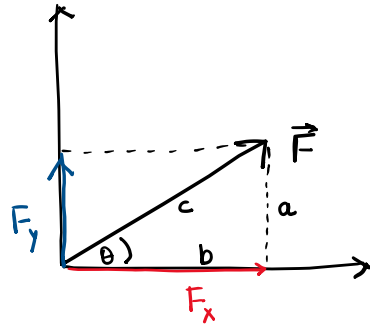


Rectangular components of a force:

When can resolve the forces into two components if all the forces are coplanar. Then we can add corresponding components in X direction and Y direction to find out resultant components in X and Y axis. The resulting force components along X and Y axis are know as rectangular components.

Magnitude of a vector is always a positive quantity.



Rectangular Components :

$$F_y = F \sin \theta = F \left( \frac{a}{c} \right)$$

$$F_x = F \cos \theta = F \left( \frac{b}{c} \right)$$