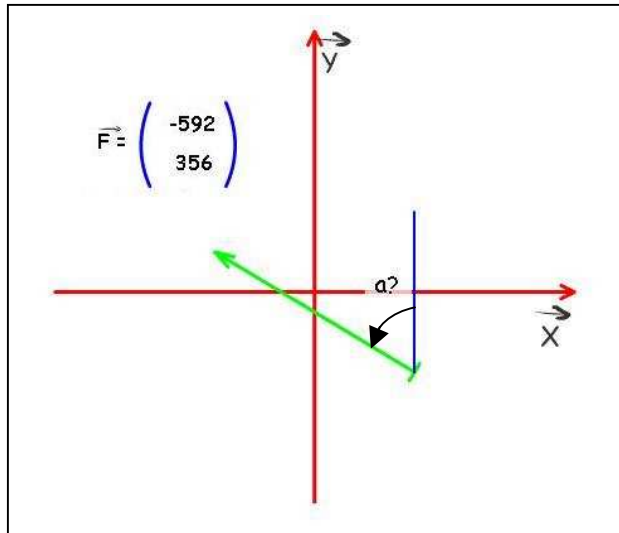


Vecteurs

Exercice 2



1-Calculer la norme de \vec{F}

2-Calculer la valeur de l'angle α

$$\|\vec{F}\| = \sqrt{\|\vec{F}_x\|^2 + \|\vec{F}_y\|^2}$$

$$\operatorname{tga} = \frac{\|\vec{F}_x\|}{\|\vec{F}_y\|}$$

$$\|\vec{F}\| = \sqrt{592^2 + 356^2}$$

$$\operatorname{tga} = \frac{592}{356}$$

$$\|\vec{F}\| = \sqrt{350464 + 126736}$$

$$\operatorname{tga} = 1,66$$

$$\|\vec{F}\| = \sqrt{477200}$$

$$\alpha = 59^\circ$$

$$\|\vec{F}\| = 691 \text{ N}$$