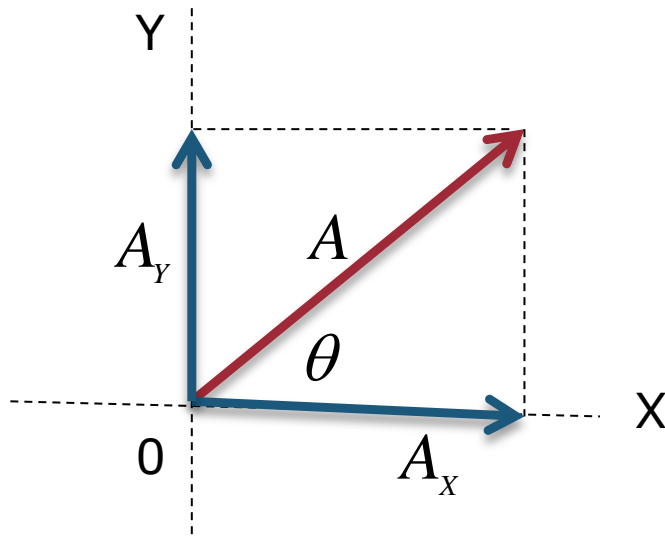


COMPONENTES DE UN VECTOR



$$\vec{A}_x = A \cos \theta \hat{i}$$

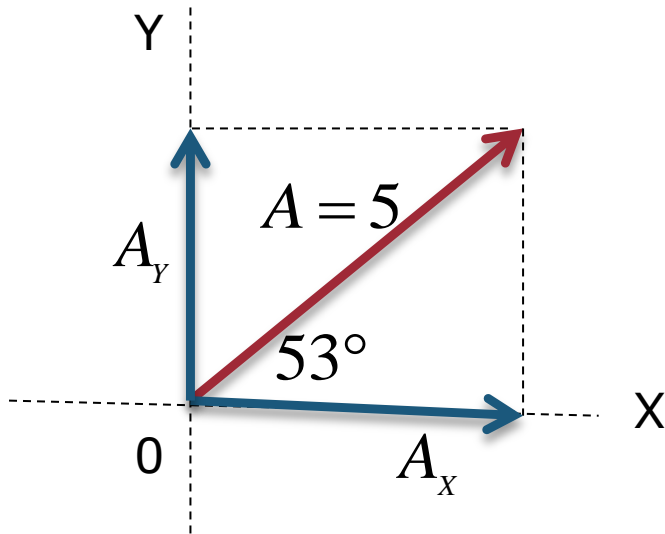
$$A_x = A \cos \theta$$

$$A_y = A \text{ sen } \theta$$

$$\vec{A}_y = A \text{ sen } \theta \hat{j}$$

EJEMPLO 1

Hallar las componentes del vector \vec{A} .



$$A_x = A \cos \theta$$

$$A_x = 5 \cos 53^\circ$$

$$A_x = 5 \frac{3}{5} [u]$$

$$A_x = 3 [u]$$

$$A_y = A \operatorname{sen} \theta$$

$$A_y = 5 \operatorname{sen} 53^\circ$$

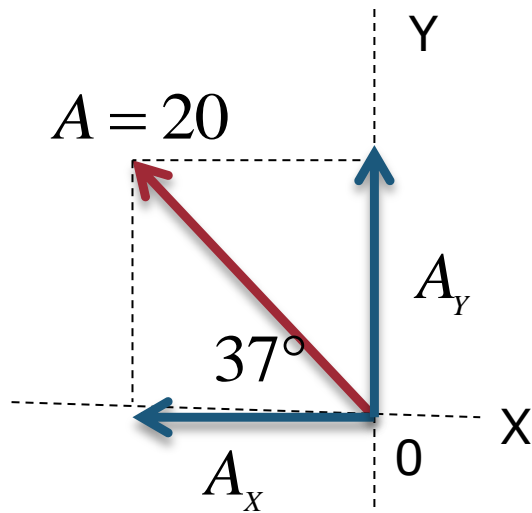
$$A_y = 5 \frac{4}{5} [u]$$

$$A_y = 4 [u]$$

$$\vec{A} = 3i + 4j$$

EJEMPLO 2

Hallar las componentes del vector \vec{A} .



$$A_x = A \cos \theta$$

$$A_x = 20 \cos 37^\circ$$

$$A_x = 20 \frac{4}{5} [u]$$

$$A_x = 16 [u]$$

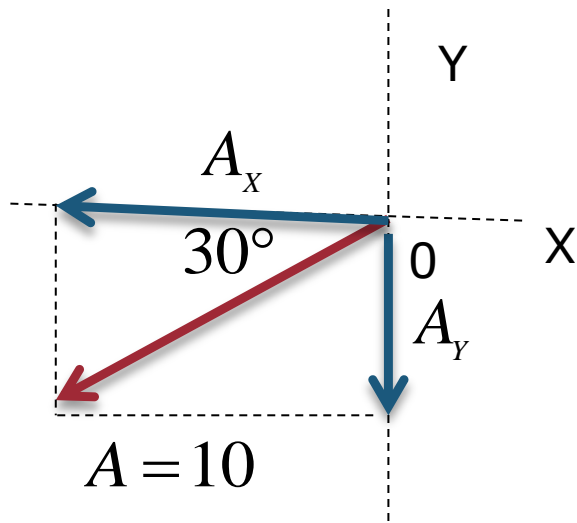
$$A_y = A \operatorname{sen} \theta \quad A_y = 20 \operatorname{sen} 37^\circ \quad A_y = 20 \frac{3}{5} [u]$$

$$A_y = 12 [u]$$

$$\vec{A} = -16i + 12j$$

EJEMPLO 3

Hallar las componentes del vector \vec{A} .



$$A_x = A \cos \theta$$

$$A_x = 10 \cos 30^\circ$$

$$A_x = 10 \cdot 0,866 [u]$$

$$A_x = 8,7 [u]$$

$$A_y = A \operatorname{sen} \theta \quad A_y = 10 \operatorname{sen} 30^\circ \quad A_y = 10 \cdot 0,5 [u]$$

$$A_y = 5 [u]$$

$$\vec{A} = -8,7i - 5j$$

FÍSICA

JORGE CABRERA