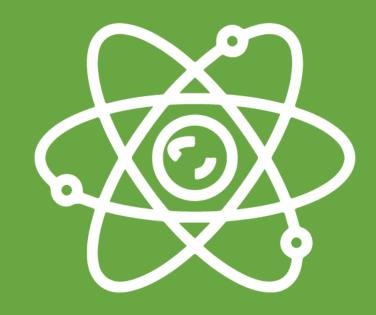


PHYSICS

ANUAL ESCOLAR 2021



RETROALIMENTACIÓN IER AÑO

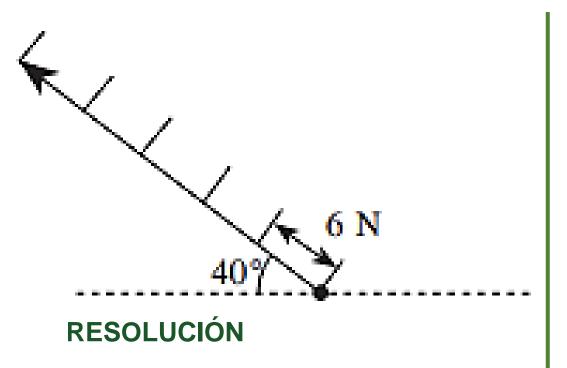


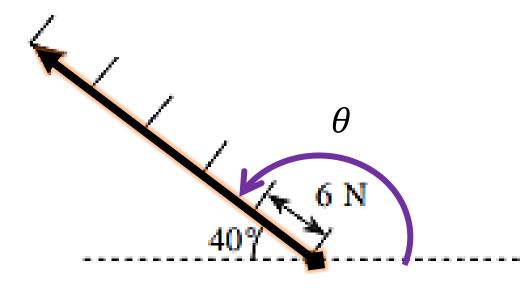






DETERMINE LOS ELEMENTOS DEL VECTOR MOSTRADO





Módulo:

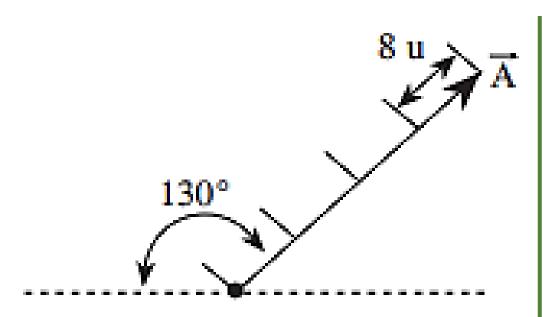
$$F = 5 \times 6N \rightarrow F = 30 N$$

Dirección: $\theta = 180^{\circ} - 40^{\circ} \rightarrow \theta = 140^{\circ}$

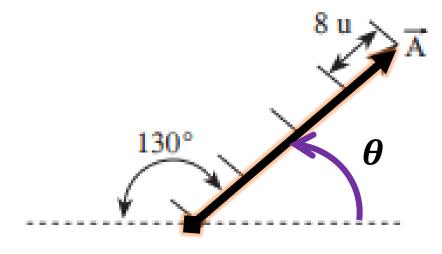




DETERMINE LOS ELEMENTOS DEL VECTOR MOSTRADO.



RESOLUCIÓN



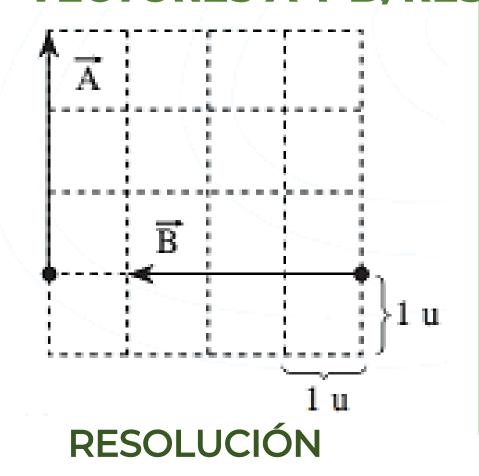
Módulo: $A = 4 \times 8u = 32 u$

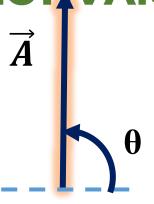
Dirección: $\theta = 180^{\circ} - 130^{\circ}$ $\theta = 50^{\circ}$





DETERMINE EL MÓDULO Y DIRECCIÓN DE LOS VECTORES A Y B, RESPECTIVAMENTE.

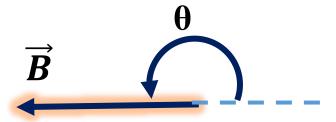




Módulo: 3u

Dirección:

$$\theta = 90^{\circ}$$

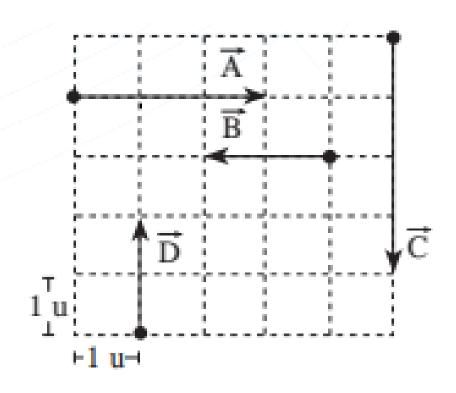


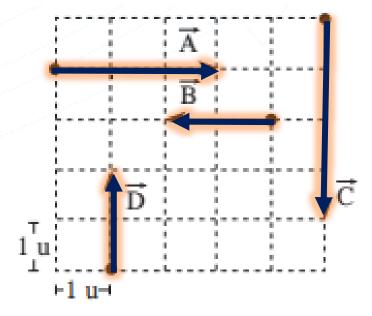
Módulo: 3u

Dirección:

$$\theta = 180^{\circ}$$

DETERMINE EL VECTOR RESULTANTE EN TÉRMINOS DE LOS VECTORES \hat{i} Y \hat{j} .





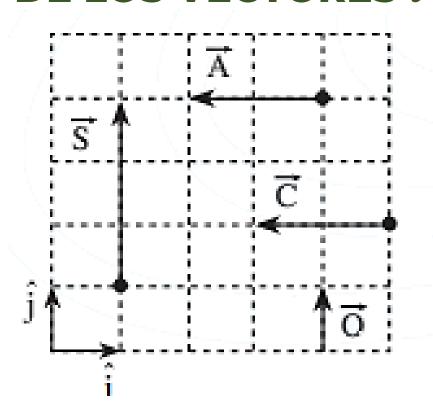
$$\overrightarrow{A} = 3\hat{\imath} u$$
 $\overrightarrow{B} = -2\hat{\imath} u$
 $\overrightarrow{C} = -4\hat{\jmath} u$
 $\overrightarrow{D} = 2\hat{\jmath} u$

$$\overrightarrow{R} = \overrightarrow{A} + \overrightarrow{B} + \overrightarrow{C} + \overrightarrow{D}$$
 $\overrightarrow{R} = (3\hat{\imath}\mathbf{u}) + (-2\hat{\imath}\mathbf{u}) + (-4\hat{\jmath}\mathbf{u}) + (2\hat{\jmath}\mathbf{u})$
 $\overrightarrow{R} = 1\hat{\imath}\mathbf{u} - 2\hat{\jmath}\mathbf{u}$

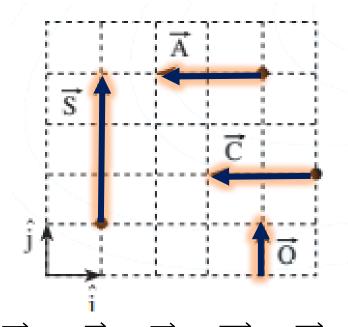




DETERMINE EL VECTOR RESULTANTE EN TÉRMINOS DE LOS VECTORES \hat{i} Y \hat{j} .



RESOLUCIÓN



$$\vec{S} = 3\hat{j} \text{ u}$$

$$\vec{A} = -2\hat{i} \text{ u}$$

$$\vec{C} = -2\hat{i} \text{ u}$$

$$\vec{O} = 1\hat{j} \text{ u}$$

$$\overrightarrow{R} = \overrightarrow{S} + \overrightarrow{A} + \overrightarrow{C} + \overrightarrow{O}$$

$$\overrightarrow{R} = (3\hat{\jmath}u) + (-2\hat{\imath}u) + (-2\hat{\imath}u) + (1\hat{\jmath}u)$$

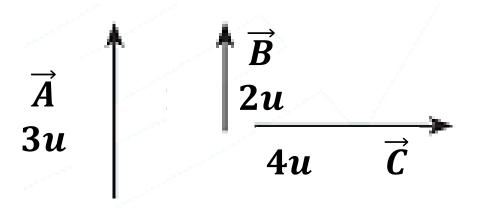
$$\overrightarrow{R} = -4\hat{\imath}u + 4\hat{\jmath}u$$

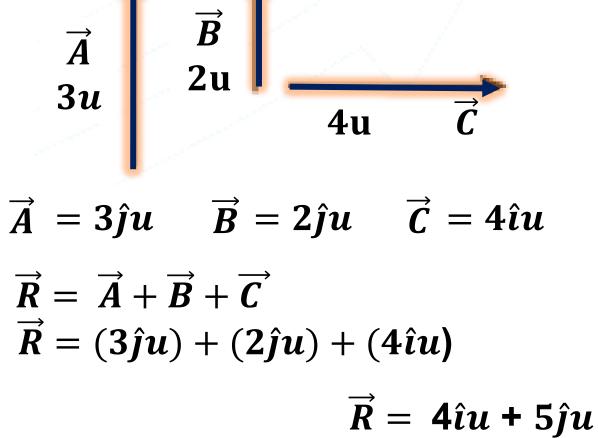




DETERMINE EL VECTOR RESULTANTE DEL CONJUNTO

DE VECTORES MOSTRADOS.



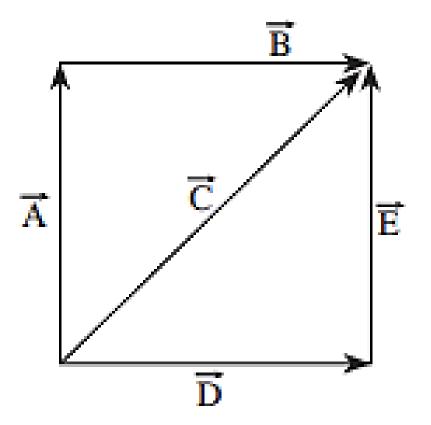




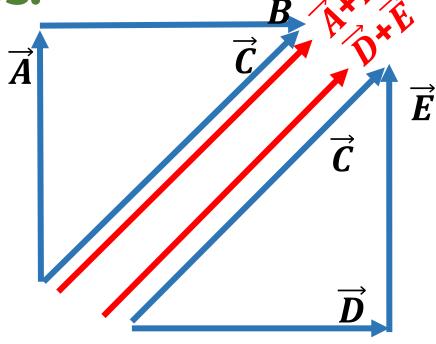


EN LA FIGURA, DETERMINE EL VECTOR RESULTANTE

DE LOS VECTORES MOSTRADOS.



RESOLUCIÓN



$$\overrightarrow{R} = \overrightarrow{A} + \overrightarrow{B} + \overrightarrow{C} + \overrightarrow{D} + \overrightarrow{E}$$

$$\overrightarrow{R} = \overrightarrow{A} + \overrightarrow{B} + \overrightarrow{C} + \overrightarrow{D} + \overrightarrow{E}$$

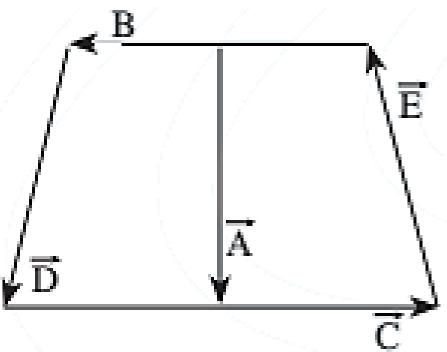
$$\overrightarrow{R} = \overrightarrow{C} + \overrightarrow{C} + \overrightarrow{C}$$

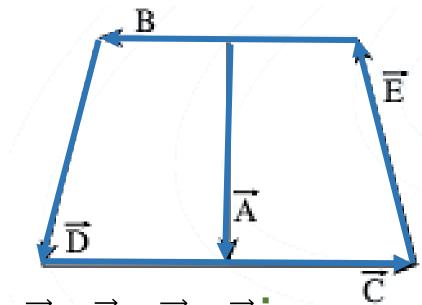
$$\vec{R} = 3\vec{C}$$



ERMINE EL VECTOR RESULTANTE Y SU RESPECTIVO

MODULO SI A=8u Y B=6u.





$$\overrightarrow{R} = \overrightarrow{A} + \overrightarrow{B} + \overrightarrow{C} + \overrightarrow{D} + \overrightarrow{E}$$
 Módulo: $\overrightarrow{R} = \overrightarrow{A}$
 $\overrightarrow{R} = \overrightarrow{A} + \overrightarrow{B} + \overrightarrow{C} + \overrightarrow{D} + \overrightarrow{E}$
 $\overrightarrow{R} = \overrightarrow{A} + \overrightarrow{O}$
 $\overrightarrow{R} = \overrightarrow{A}$
 $\overrightarrow{R} = \overrightarrow{A}$

*l*lódulo:
$$\overrightarrow{R} = \overrightarrow{A}$$

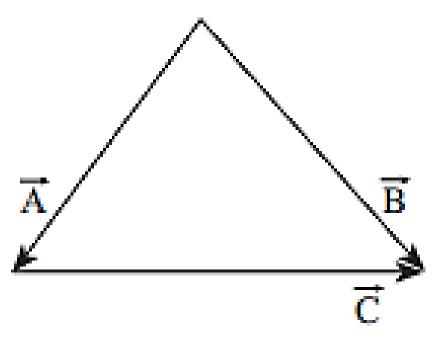
$$R = 8u$$

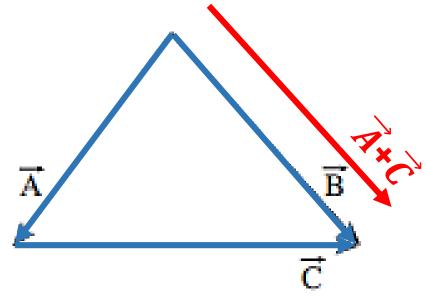




DETERMINE EL VECTOR RESULTANTE DE LOS VECTORES

MOSTRADOS.





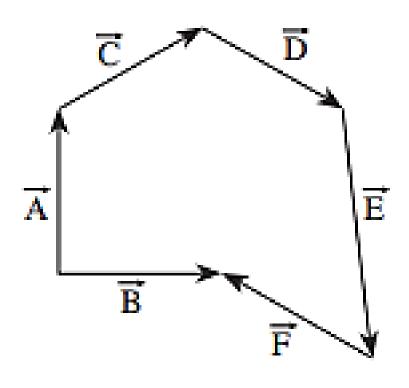
$$\overrightarrow{R} = \overrightarrow{A} + \overrightarrow{C} + \overrightarrow{B}$$

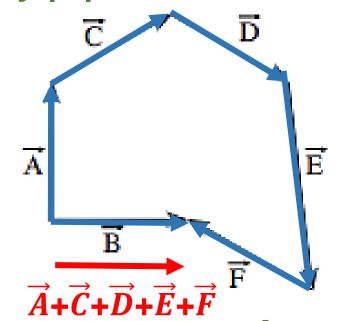
$$\overrightarrow{R} = \overrightarrow{A} + \overrightarrow{C} + \overrightarrow{B}$$

$$\overrightarrow{R} = \overrightarrow{B} + \overrightarrow{B}$$

$$\overrightarrow{R}=2\overrightarrow{B}$$

DETERMINE EL MÓDULO DEL VECTOR RESULTANTE DE LOS VECTORES MOSTRADOS, A = 20 u y B = 25 u.





$$\overrightarrow{R} = \overrightarrow{A} + \overrightarrow{B} + \overrightarrow{C} + \overrightarrow{D} + \overrightarrow{E} + \overrightarrow{F}$$
 módulo $\overrightarrow{R} = 2\overrightarrow{B}$
 $\overrightarrow{R} = \overrightarrow{B} + \overrightarrow{A} + \overrightarrow{C} + \overrightarrow{D} + \overrightarrow{E} + \overrightarrow{F}$ R = 2(25u)
 $\overrightarrow{R} = \overrightarrow{B} + \overrightarrow{B}$ R = 50 u

módulo
$$\overrightarrow{R} = 2\overline{B}$$

$$R = 2(25u)$$

$$R = 50 u$$

Se agradece su colaboración y participación durante el tiempo de la clase.

