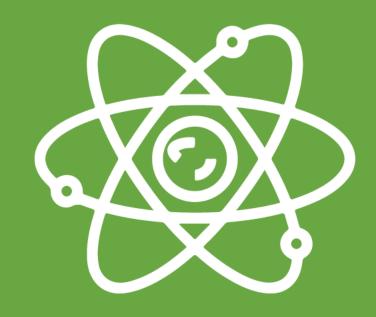


PHYSICS

ANUAL ESCOLAR 2021



RETROALIMENTACIÓN IER AÑO

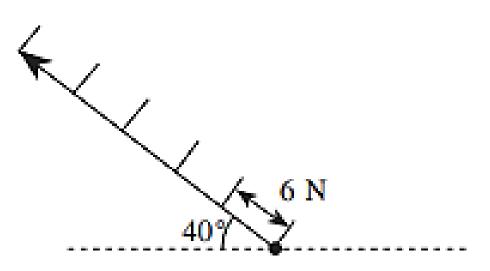


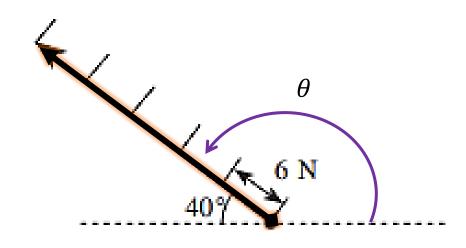






DETERMINE LOS ELEMENTOS DEL VECTOR MOSTRADO





$$F = 5 \times 6N$$

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

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

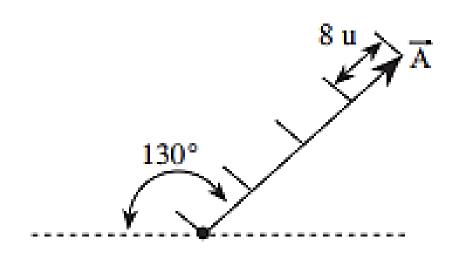
$$\rightarrow \theta = 140^{\circ}$$

MOSTRADO.

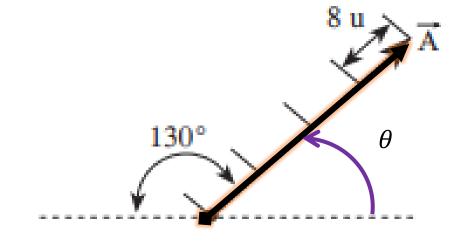




DETERMINE LOS ELEMENTOS DEL VECTOR



RESOLUCIÓN



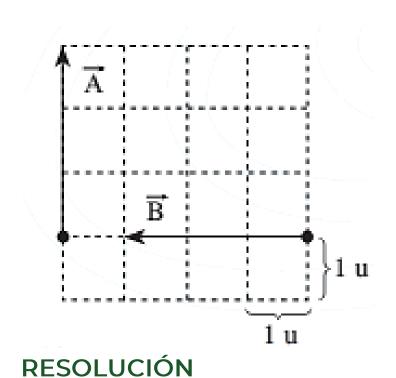
Módulo: $A = 4 \times 8u = 32 N$

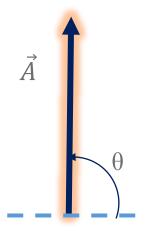
Dirección: $\theta = 180^{\circ} - 130^{\circ}$ $\theta = 50^{\circ}$





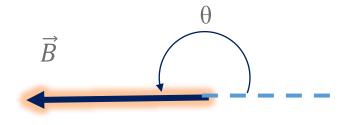
DETERMINE EL MÓDULO Y DIRECCIÓN DE LOS VECTORES A Y B, RESPECTIVAMENTE.





Módulo: 3u

Dirección: $\theta = 90^{\circ}$



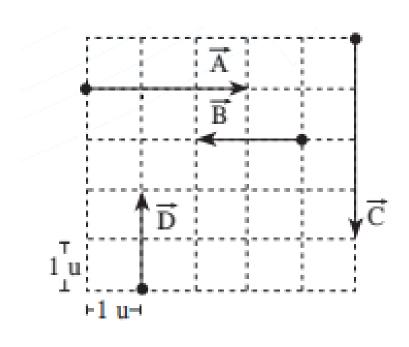
Módulo: 3u

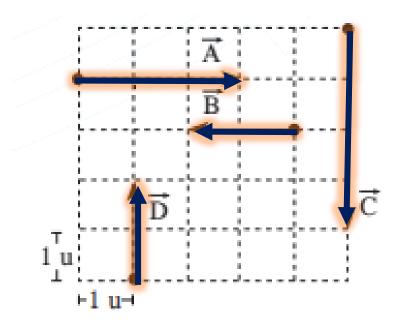
Dirección: $\theta = 180^{\circ}$





DETERMINE EL VECTOR RESULTANTE EN TÉRMINOS DE LOS VECTORES I Y J.





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

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

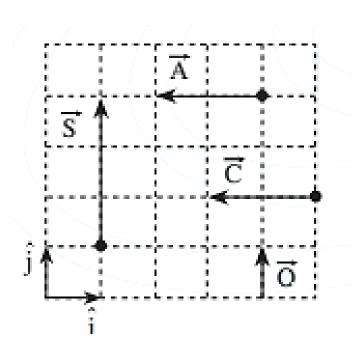
$$\overrightarrow{R} = (3\hat{\imath}u) + (-2\hat{\imath}u) + (-4\hat{\jmath}u) + (2\hat{\jmath}u)$$

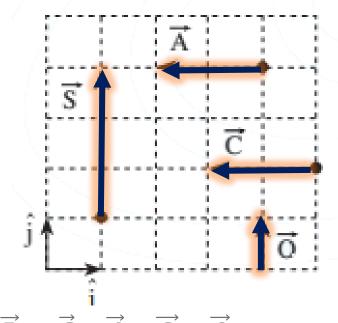
$$\vec{R} = \hat{1iu} - 2\hat{j}u$$





DETERMINE EL VECTOR RESULTANTE EN TÉRMINOS DE LOS VECTORES I Y J.





$$\vec{s} = 3\hat{j} u$$

$$\overrightarrow{A} = -2\hat{\imath} u$$

$$\vec{c} = -2\hat{\imath} u$$

$$\overrightarrow{o} = 1\hat{j} u$$

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

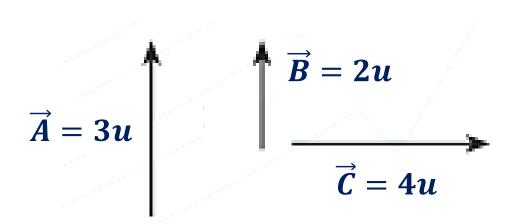
$$\vec{R} = (3\hat{\jmath}u) + (-2\hat{\imath}u) + (-2\hat{\imath}u) + (1\hat{\jmath}u)$$

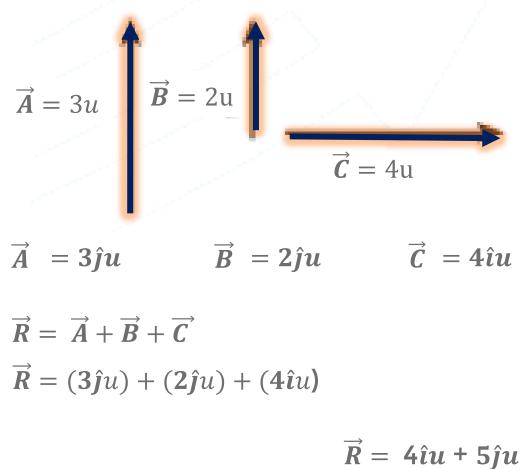
$$\vec{R} = -4\hat{\imath}u + 4\hat{\jmath}u$$





DETERMINE EL VECTOR RESULTANTE DEL CONJUNTO DE VECTORES MOSTRADOS.



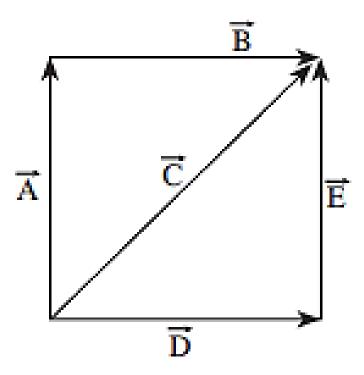


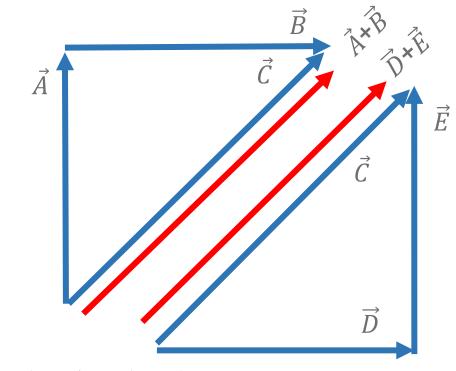




EN LA FIGURA, DETERMINE EL VECTOR RESULTANTE DE LOS VECTORES

MOSTRADOS.





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

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

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

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

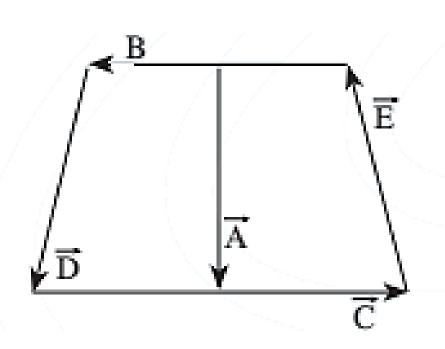




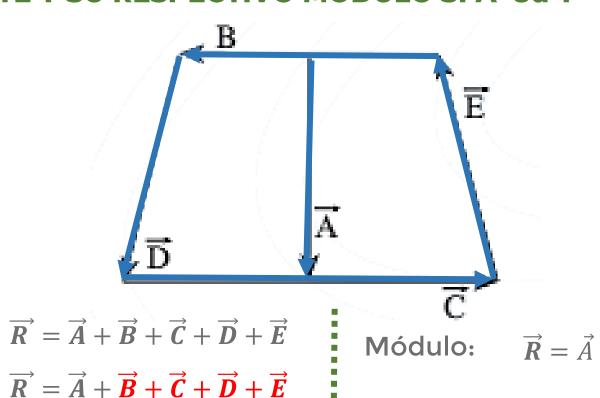
DETERMINE EL VECTOR RESULTANTE Y SU RESPECTIVO MÓDULO SI A=8u Y

 $\overrightarrow{R} = \overrightarrow{A} + \overrightarrow{0}$

B=6u.



RESOLUCIÓN

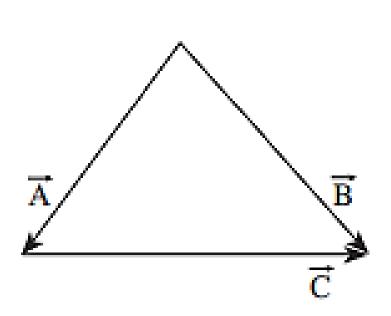


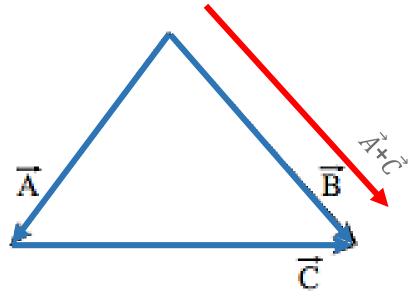
R = 8u





DETERMINE EL VECTOR RESULTANTE DE LOS VECTORES MOSTRADOS.





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

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

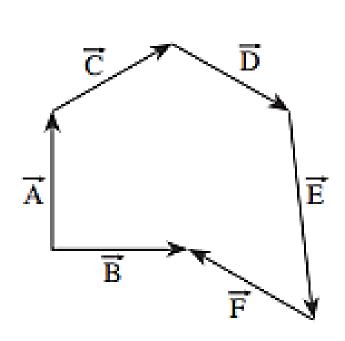
$$\overrightarrow{R} = \overrightarrow{B} + \overrightarrow{B}$$

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

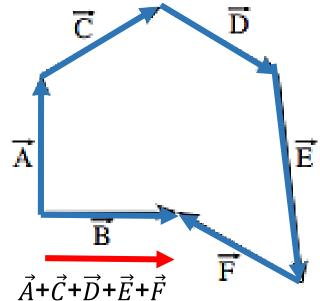




DETERMINE EL MÓDULO DEL VECTOR RESULTANTE DE LOS VECTORES MOSTRADOS, A | = 20 u y |B| = 25 u.



RESOLUCIÓN



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

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

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

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

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

$$R = 2(25u)$$

$$R = 50 u$$

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

