

PRACTICA N°2

TEMA: COORDENADAS ESCALARES, POLARES Y GEOGRÁFICAS

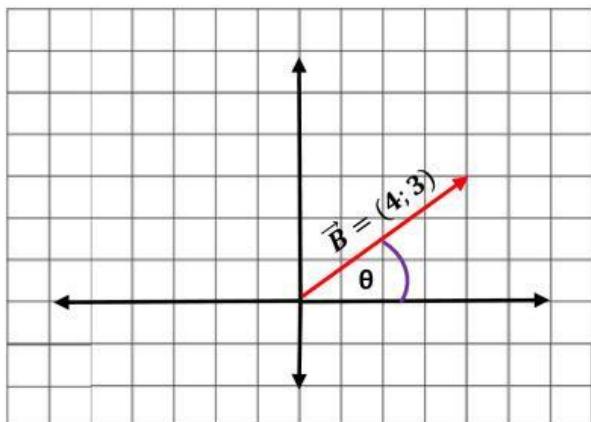
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INSTRUCCIONES:

- Analizar cada ejercicio presentado y completar el espacio según corresponda.
- En la parte superior izquierda se verá reflejada su calificación de acuerdo al número de aciertos y errores una vez enviada su hoja de trabajo realizada.

Calcular el módulo y el ángulo de los siguientes vectores escalares.

1.



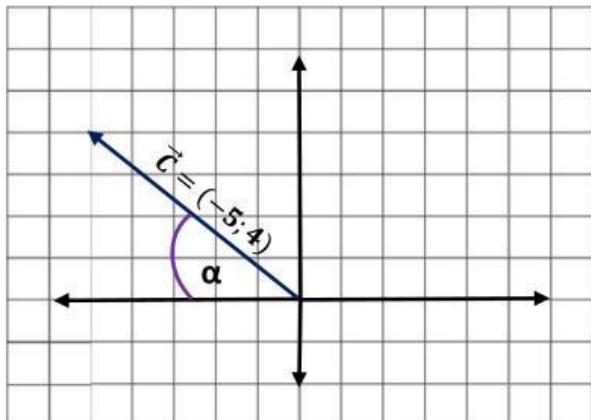
$$|\vec{B}| = \sqrt{(\quad)^2 + (\quad)^2}$$

$$|\vec{B}| =$$

$$\theta = \tan^{-1} (\quad)$$

$$\theta = \quad ^\circ$$

2.



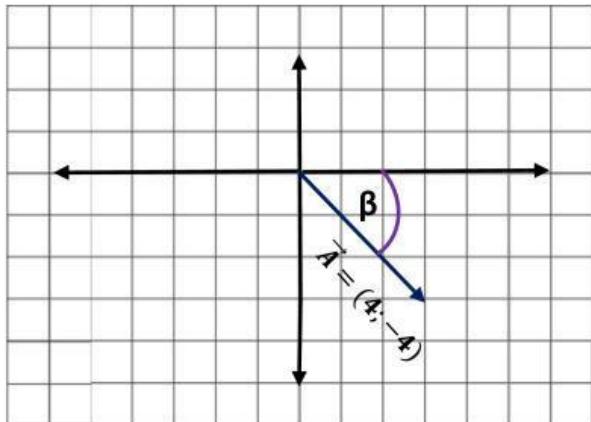
$$|\vec{C}| = \sqrt{(\quad)^2 + (\quad)^2}$$

$$|\vec{C}| =$$

$$\alpha = \tan^{-1} (\quad)$$

$$\alpha = \quad ^\circ$$

3.



$$|\vec{A}| = \sqrt{(\quad)^2 + (\quad)^2}$$

$$|\vec{A}| =$$

$$\beta = \tan^{-1} (\quad)$$

$$\beta = \quad ^\circ$$

Dado los siguientes vectores polares y geográficos, hallar sus valores en coordenadas escalares, escoger la opción correcta para la gráfica y escribir en que cuadrante se encuentra.

1.

$$\vec{D} = (6; 140^\circ)$$

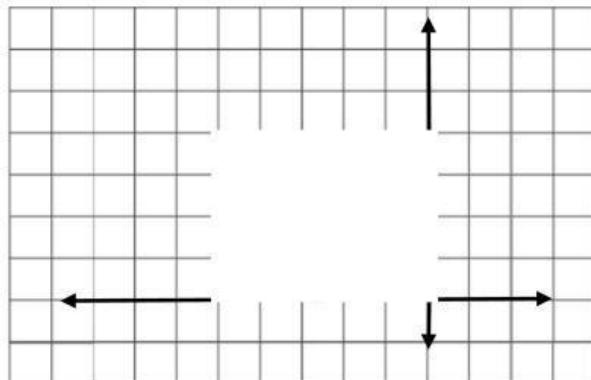
$$x = r * \cos(\theta)$$

$$x = \quad * \cos(\quad)$$

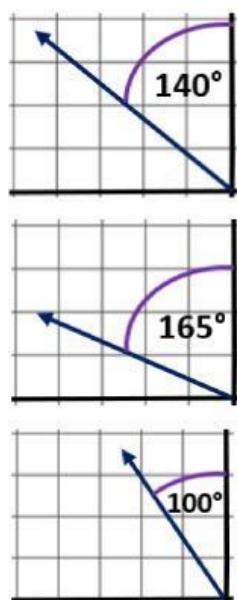
$$x =$$

Coordenadas Escalares:

$$\vec{D} = (\quad ; 3.9)$$



Cuadrante: _____



2.

$$\vec{M} = (5; 260^\circ)$$

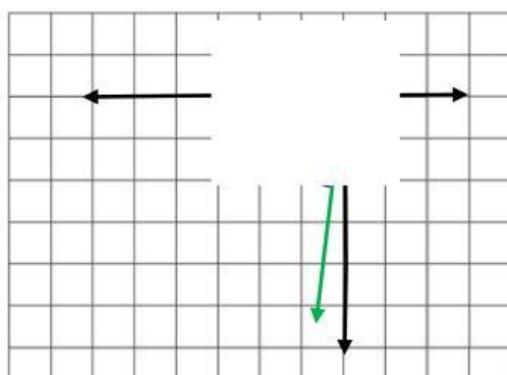
$$y = r * \sin(\beta)$$

$$y = \quad * \sin(\quad)$$

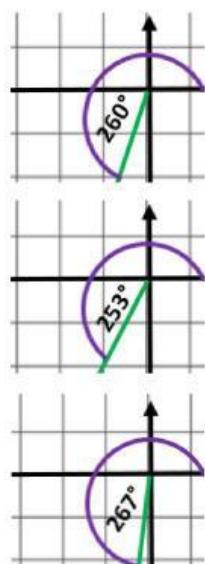
$$y =$$

Coordenadas Escalares:

$$\vec{M} = (-0.87; \quad)$$



Cuadrante: _____



3.

$$\vec{N} = (5; \text{S } 30^\circ \text{ E})$$

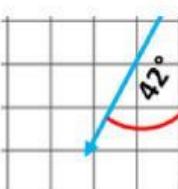
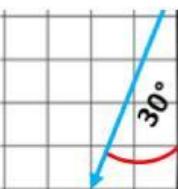
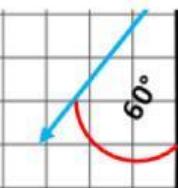
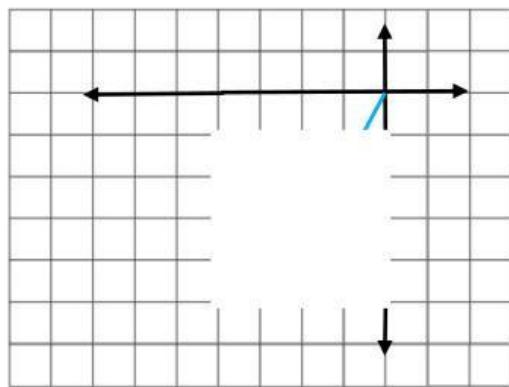
Coordenadas Polares:

$$\vec{N} = (\quad ; \quad)$$

$$x = r * \cos(\alpha)$$

$$x = \quad * \cos(\quad)$$

$$x =$$



Coordenadas Escalares:

$$\vec{N} = (\quad ; -4.33)$$

Cuadrante: _____

4.

$$\vec{L} = (4; \text{N } 20^\circ \text{ O})$$

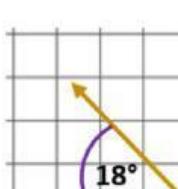
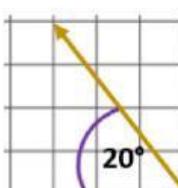
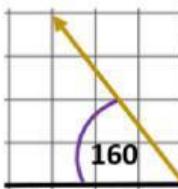
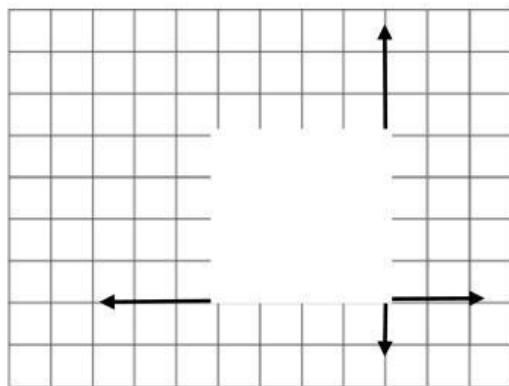
Coordenadas Polares:

$$\vec{L} = (\quad ; \quad)$$

$$y = r * \sin(\beta)$$

$$y = \quad * \sin(\quad)$$

$$y =$$



Coordenadas Escalares:

$$\vec{L} = (-3.76; \quad)$$

Cuadrante: _____