

UDS: Universidad del sureste.

Alumno: Francisco Lopez Argueta.

Profesor: Jorge Sebastian Dominguez torrez.

Trabajo: Actividad P.

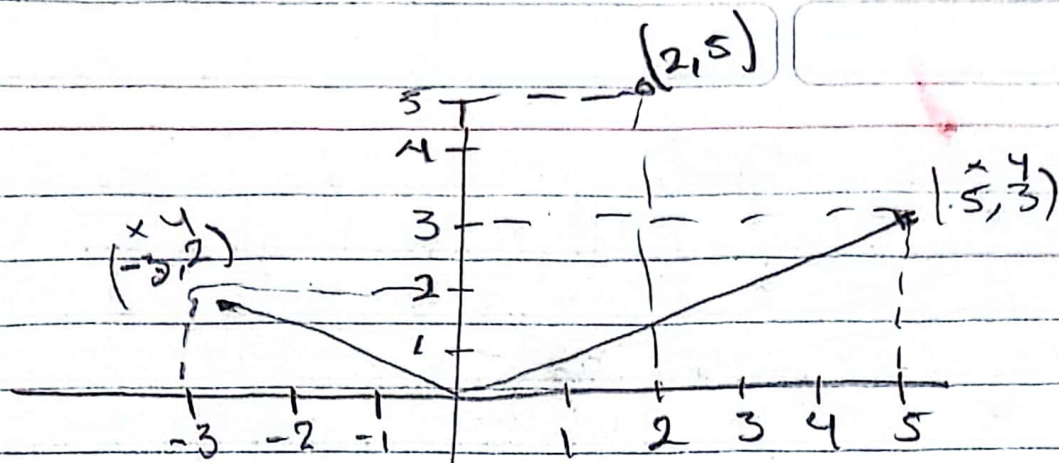
Materia: Estatica.

Grado: 2^o

Licenciatura: Ingenieria en sistemas computacionales.

Determina el valor del vector resultante del siguiente conjunto de vectores.

Traza el vector resultante de ser necesario.



$$V_x = (5, -3) \quad V_x = 2$$

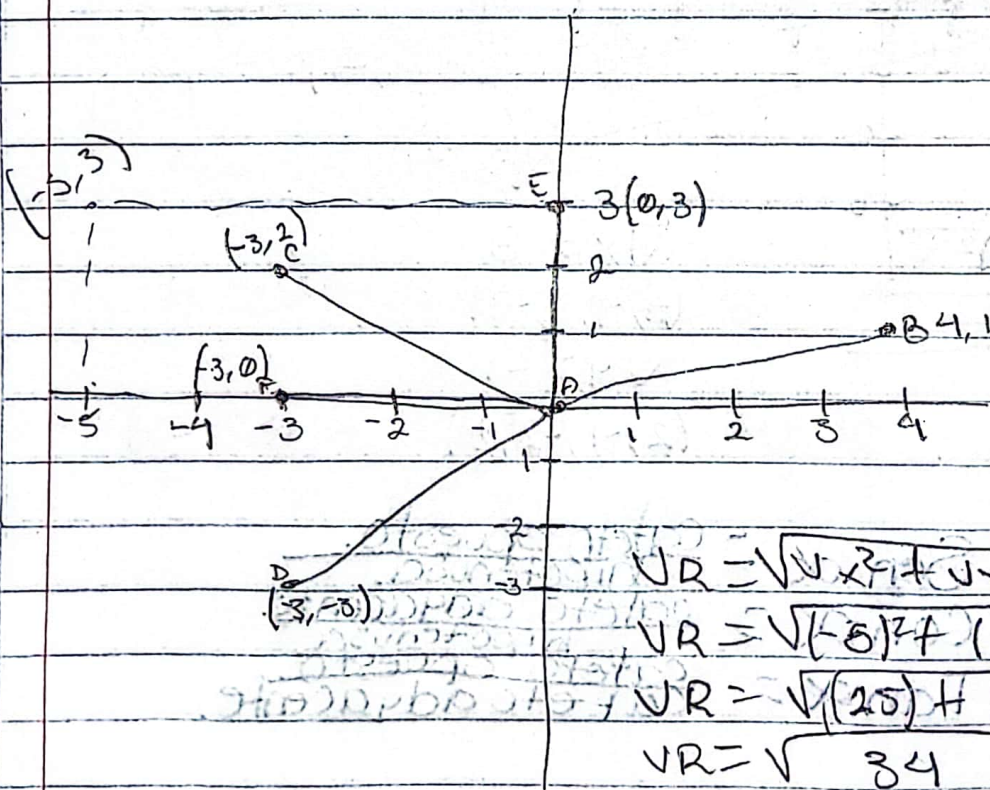
$$V_y = (3, 2) \quad V_y = 5$$

$$VR = \sqrt{V_x^2 + V_y^2}$$

$$VR = \sqrt{2^2 + (5)^2}$$

$$VR = \sqrt{4 + 25}$$

$$VR = \sqrt{29}$$



$$V_x = -5$$

$$(4, 0, -3, -3, -3)$$

$$V_y =$$

$$(1, 3, 2, 0, -3)$$

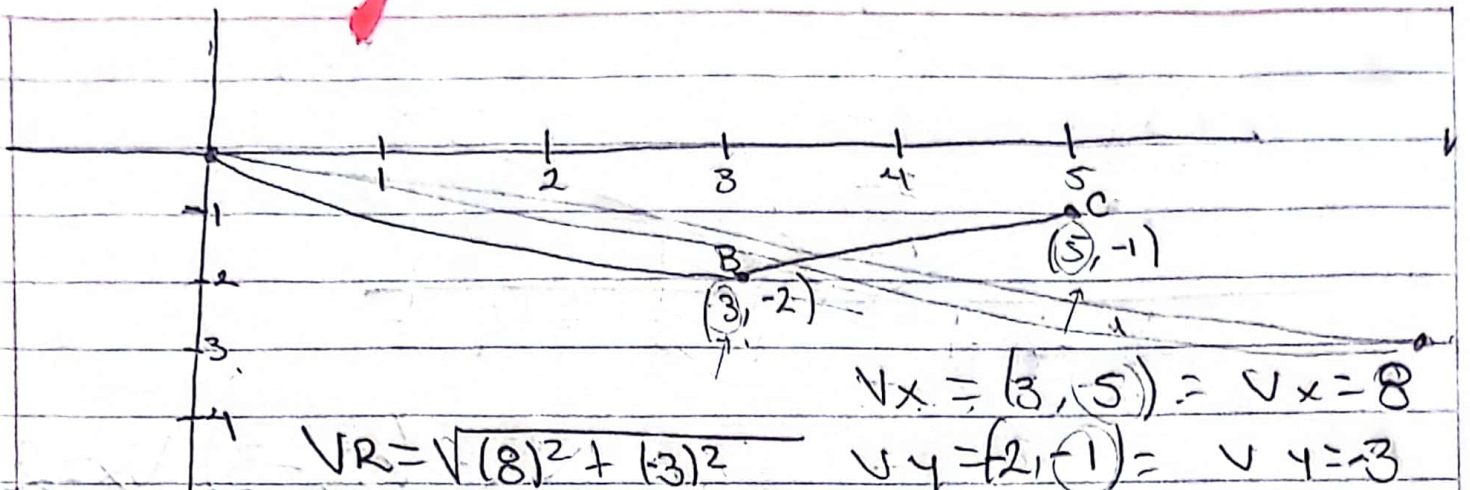
$$V_y = 3$$

$$VR = \sqrt{V_x^2 + V_y^2}$$

$$VR = \sqrt{(-5)^2 + (3)^2}$$

$$VR = \sqrt{(25) + (9)}$$

$$VR = \sqrt{34}$$



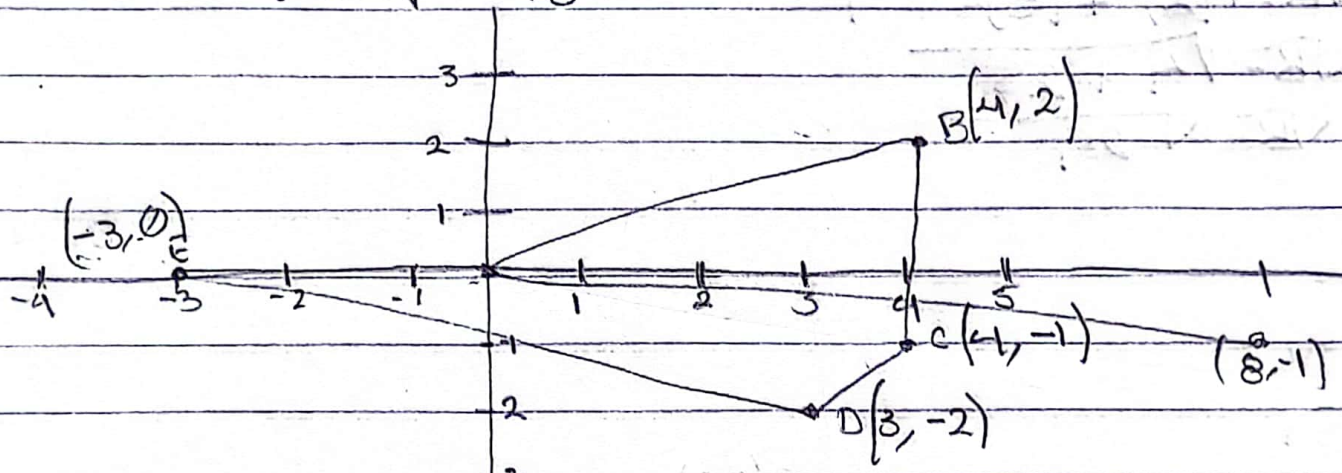
$$VR = \sqrt{(8)^2 + (-3)^2}$$

$$VR = \sqrt{64 + 9}$$

$$VR = \sqrt{73}$$

$$Vx = (3, 5) = Vx = 8$$

$$Vy = (2, -1) = Vy = -3$$



$$VR = \sqrt{(8)^2 + (-1)^2}$$

$$VR = \sqrt{64 + 1}$$

$$VR = \sqrt{65}$$

$$Vx = 8$$

$$(4, 4, 3, -3)$$

$$Vy = -1$$

$$(2, -1, -2, 0)$$

~~Sen~~ Sen $\alpha = \frac{\text{cateto opuesto.}}{\text{hipotenusa.}}$
 Con $\alpha = \frac{\text{cateto adyacente}}{\text{hipotenusa.}}$
 Tan $\alpha = \frac{\text{cateto opuesto.}}{\text{cateto adyacente.}}$