Problemario

Nombre del Alumno: Galilea Monserrat Gómez Gómez

Nombre del tema: Vectores

Parcial: Unidad 2

Nombre de la Materia: Física

Nombre del profesor: Ojeda

Nombre de la Licenciatura: Bachillerato en recursos humanos

Cuatrimestre: Cuarto

VECTORES

①

$V = 5cm \angle 100°$

$V_x = 1cm$

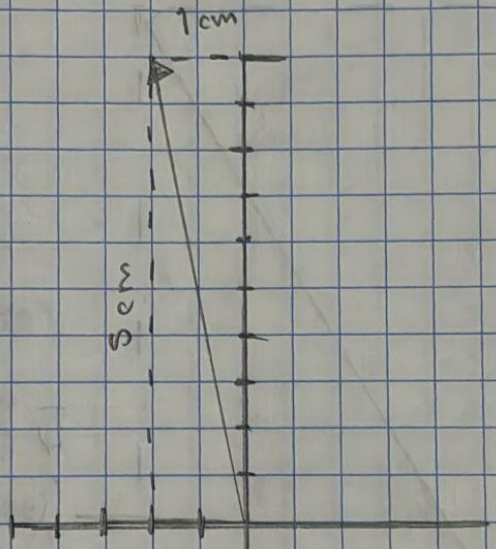
$V_y = 5cm$

$V_x = 5cm \cos 100°$

$V_x = -0.8$

$V_y = 6cm \text{ SEN } 100°$

$V_y = 4.9$



$V = 20\,cm \times 150°$

$V_x = 10\,cm$

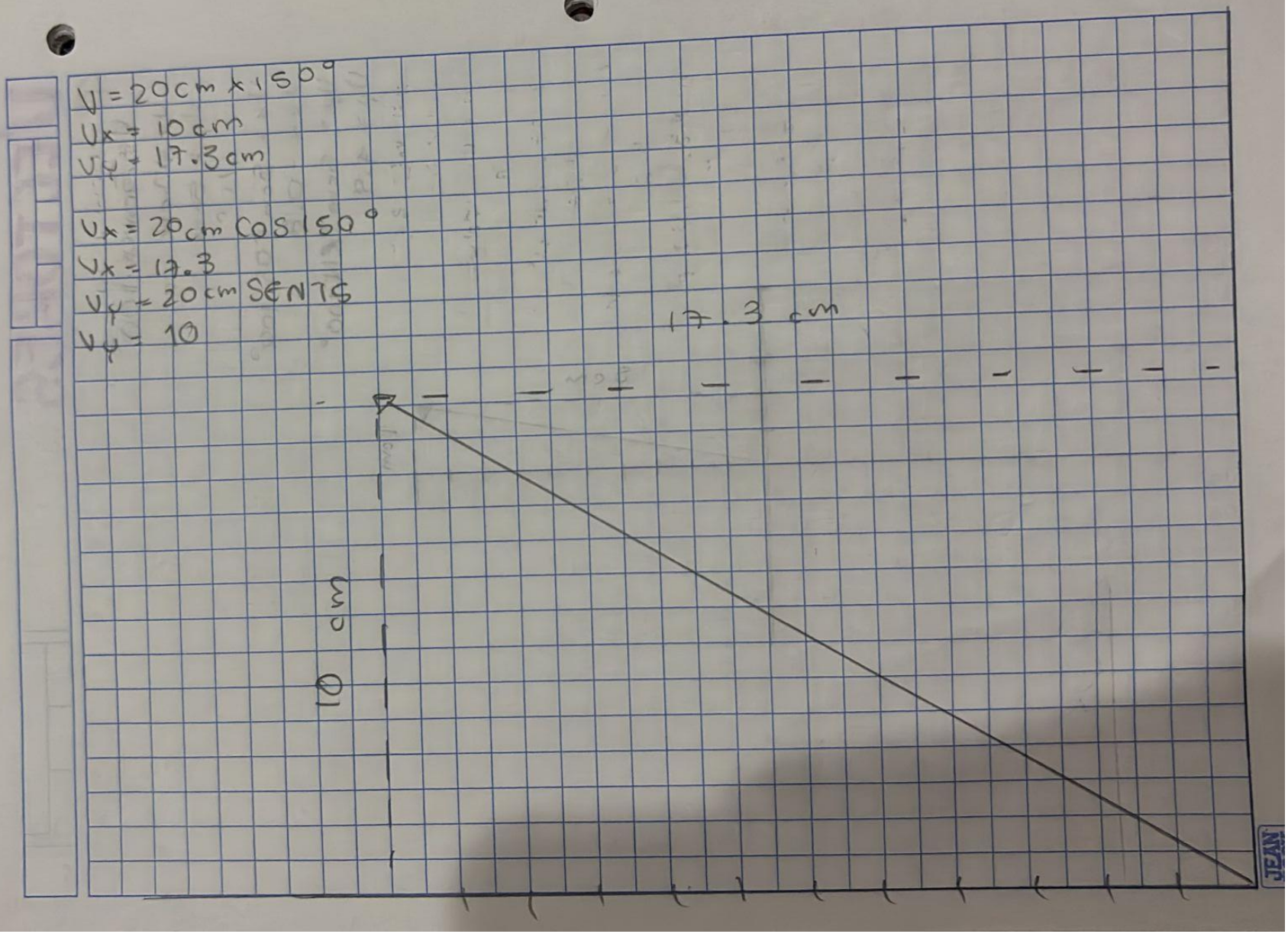
$V_y = 17.3\,cm$

$V_x = 20\,cm \cos 150°$

$V_x = 17.3$

$V_y = 20\,cm \operatorname{SEN} 7\$$

$V_y = 10$



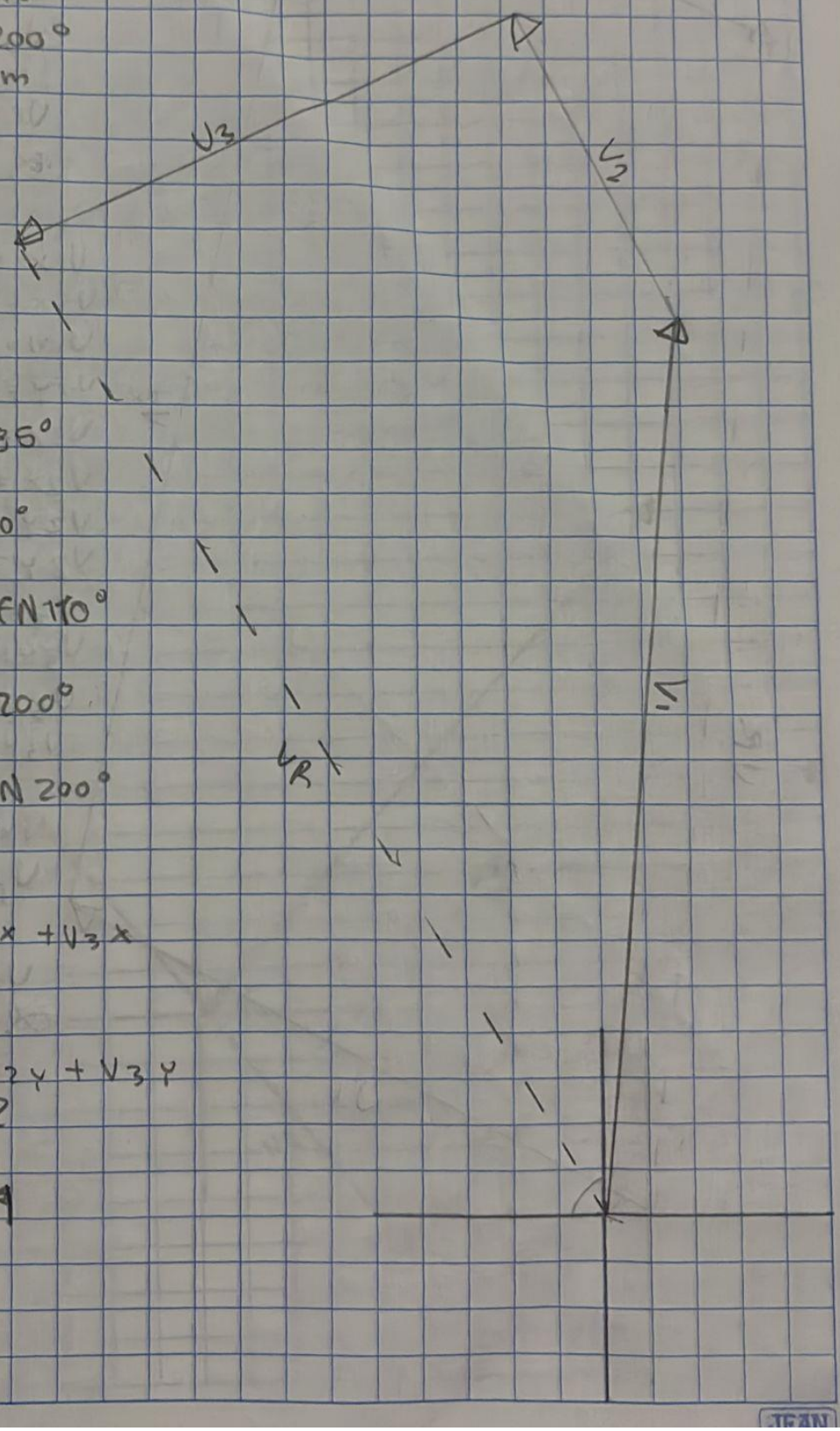
$V_1 = 10cm \angle 85°$

$V_2 = 5cm \angle 110°$

$V_3 = 8cm \angle 200°$

$VR = -14.7cm$

$\alpha = -125°$



$V_{1x} = 10cm \cos 85°$

$V_{1x} = 0.87$

$V_{1y} = 10cm \text{ SEN } 85°$

$V_{1y} = 9.96$

$V_{2x} = 5cm \cos 110°$

$V_{2x} = -1.71$

$V_{2y} = 5cm \text{ SEN } 110°$

$V_{2y} = 4.69$

$V_{3x} = 8cm \cos 200°$

$V_{3x} = -7.5$

$V_{3y} = 8cm \text{ SEN } 200°$

$V_{3y} = -2.73$

$V_x = V_{1x} + V_{2x} + V_{3x}$

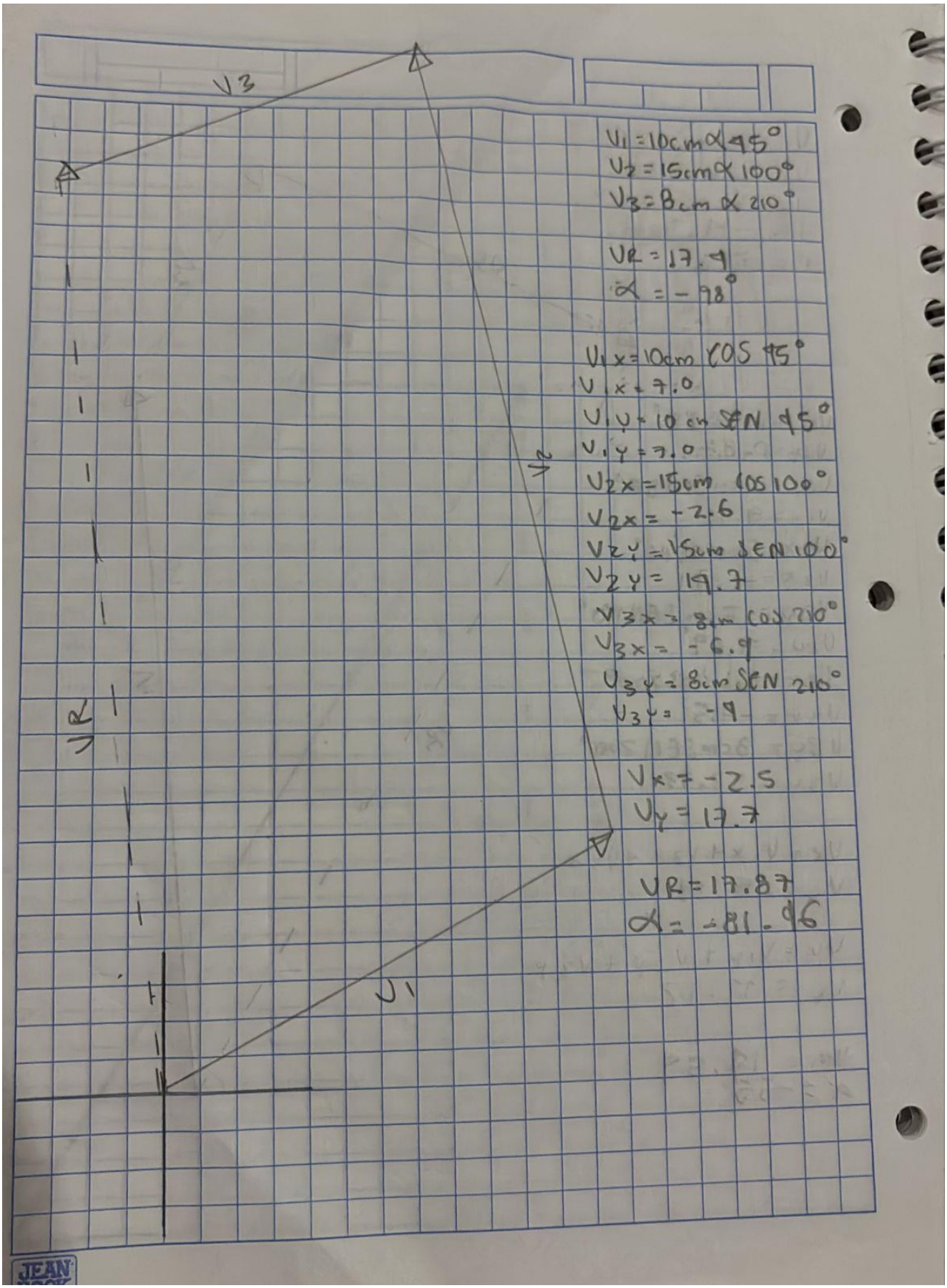
$V_x = -8.34$

$V_y = V_{1y} + V_{2y} + V_{3y}$

$V_y = 11.92$

$V_R = 14.54$

$\alpha = -55$



$V_1 = 10cm \angle 45°$
$V_2 = 15cm \angle 100°$
$V_3 = 8cm \angle 210°$

$V_R = 17.9$
$\alpha = -78°$

$V_{1x} = 10cm \cos 45°$
$V_{1x} = 7.0$
$V_{1y} = 10cm \operatorname{SEN} 45°$
$V_{1y} = 7.0$
$V_{2x} = 15cm \cos 100°$
$V_{2x} = -2.6$
$V_{2y} = 15cm \operatorname{SEN} 100°$
$V_{2y} = 14.7$
$V_{3x} = 8cm \cos 210°$
$V_{3x} = -6.9$
$V_{3y} = 8cm \operatorname{SEN} 210°$
$V_{3y} = -4$

$V_x = -2.5$
$V_y = 17.7$

$V_R = 17.87$
$\alpha = -81.96$

$V_1 = 10\,cm\ 45°$ $V_1 + V_2$

$V_2 = 5cm\ 110 \propto 290°$

$V_R = 9.2$

$\alpha = 349°$

$V_{1x} = 10\,cm\ \cos 45°$

$V_{1x} = 7$

$V_{1y} = 10cm\ SEN\ 45°$

$V_{1y} = 7$

$V_{2x} = 5 \cos 296°$

$V_{2x} = 1.7$

$V_{1y} = 5SEN\ 290°$

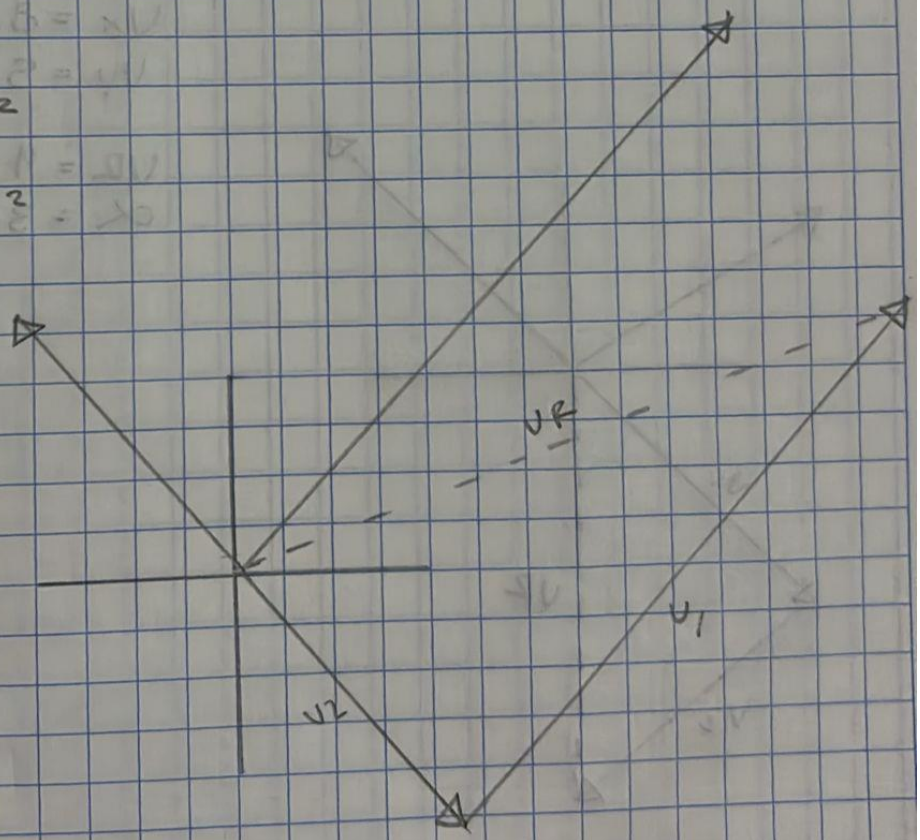
$V_{1y} = -4.6$

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

$8.7^2 + 12.9^2$

$V_R = 9.02$

$\alpha = 15.95°$



$V_1 = 5cm \angle 30° \angle 210°$

$V_2 = 5cm \angle 150°$

$V_R = 5.3$

$\alpha = 270°$

$V_{1x} = 5cm \cos 210°$

$V_{1x} = -4.3$

$V_{1y} = 5cm \text{ SEN } 210°$

$V_{1y} = -2.5$

$V_{2x} = 5cm \cos 150°$

$V_{2x} = -4.3$

$V_{2y} = 5cm \text{ SEN } 150°$

$V_{2y} = 2.5$

$V_x = 8.6$

$V_y = 5$

$V_R = 9.9$

$\alpha = 30.17$