



Nombre del alumno: Yahir Aguilar Sicalhua

Parcial: 1

Nombre de la materia: Calculo Vectorial

Nombre del profesor: Jorge Enrique Albores Aguilar

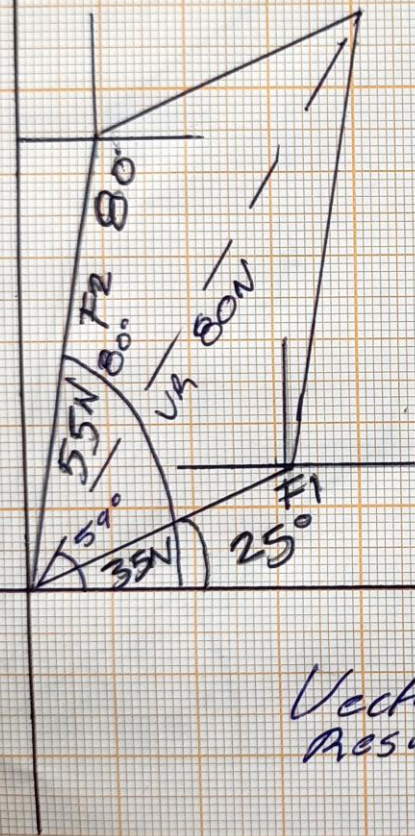
Nombre de la licenciatura: Ingeniería en Sistemas Computacionales

Cuatrimestre: 3

Yahir Aguilar Sicalhua

$$F_1 = 35\text{N a } 25^\circ$$

$$F_2 = 55\text{N a } 80^\circ$$

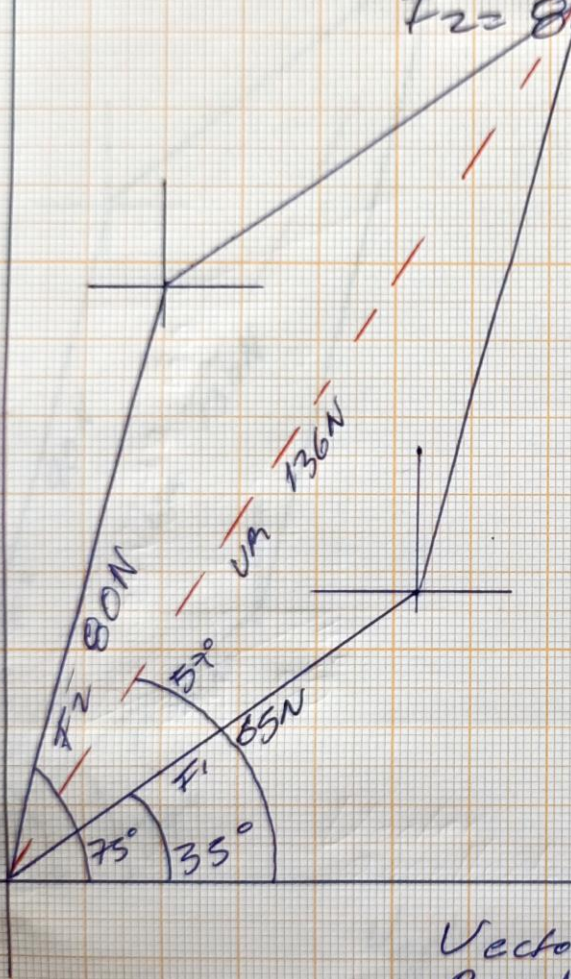


Vector Resultante =  $80\text{N a } 59^\circ$

Yahir Aguilar Sicathua

$$F_1 = 65\text{ N a } 35^\circ$$

$$F_2 = 80\text{ N a } 75^\circ$$

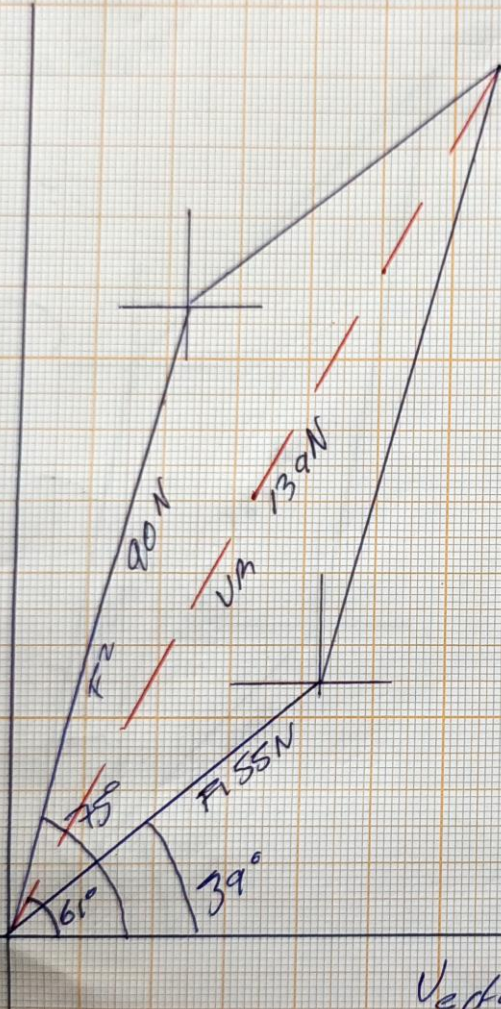


Vector  
Resultante = 136 N a  $57^\circ$

$F_1 = 55\text{ N a } 39^\circ$

$F_2 = 90\text{ N a } 75^\circ$

Yahir Aguilar Sicathua

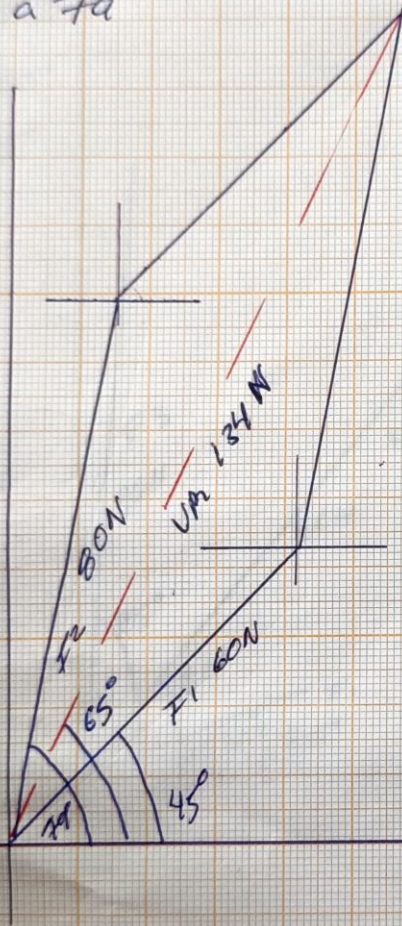


Vector  
Resultante =  $139\text{ N a } 61^\circ$

$F_1 = 60\text{N}$  a  $45^\circ$

$F_2 = 80\text{N}$  a  $79^\circ$

Yahir Aguilar Sicathua



Vector Resultante  $134\text{N}$  a  $65^\circ$

$$F_{rx} = 35N \cos 20^\circ + 80N \cos 50^\circ + 90N \cos 85^\circ$$

$$F_{rx} = 92.15$$

$$F_{ry} = 35N \sin 20^\circ + 80N \sin 50^\circ + 90N \sin 85^\circ$$

$$F_{ry} = 162.91$$

$$\vec{F}_r = \sqrt{92.15^2 + 162.91^2}$$

$$F_r = \sqrt{35,031.29}$$

$$F_r = 187.16$$

$$\theta = \tan^{-1} \left( \frac{162.91}{92.15} \right)$$

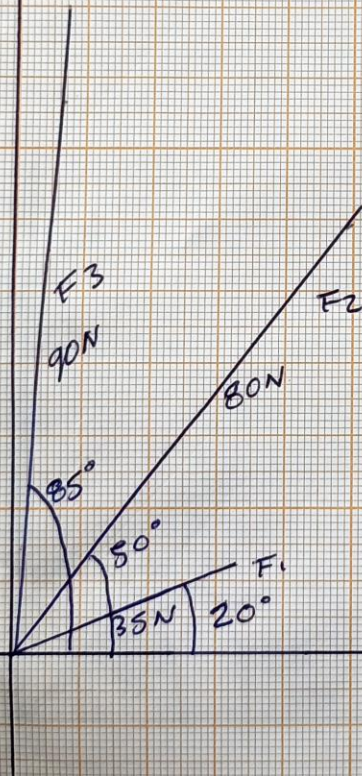
$$\theta = 60^\circ 30' 19.22''$$

Yahir Aguilar Sicathua

$$F_1 = 35N \text{ a } 20^\circ$$

$$F_2 = 80N \text{ a } 50^\circ$$

$$F_3 = 90N \text{ a } 85^\circ$$



Handwritten text on the left margin.

$$F_{rx} = 40N \cos 35 + 50N \cos 45 + 80N \cos 88$$

$$F_{rx} = 70.91$$

$$F_{ry} = 40N \sin 35 + 50N \sin 45 + 80 \sin 88$$

$$F_{ry} = 138.24$$

Jahir Aguirre Sicathua

$$\vec{F}_R = \sqrt{70.91^2 + 138.24^2}$$

$$F_R = \sqrt{24,138.52}$$

$$F_R = 155.36$$

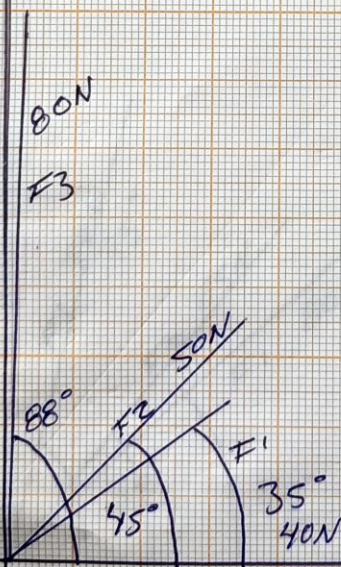
$$\theta = \tan^{-1} \left( \frac{138.24}{70.91} \right)$$

$$\theta = 62^\circ 50' 40.25$$

$$F_1 = 40N \text{ a } 35^\circ$$

$$F_2 = 50N \text{ a } 45^\circ$$

$$F_3 = 80N \text{ a } 88^\circ$$



$$F_{rx} = 80N \cos 42 + 65N \cos 50 + 70N \cos 75$$

$$F_{rx} = 119.35$$

$$F_{ry} = 80N \sin 42 + 65N \sin 50 + 70N \sin 75$$

$$F_{ry} = 170.93$$

Yahir Aguilas Sicalhua

$$F_r = \sqrt{119.35^2 + 170.93^2}$$

$$F_r = \sqrt{43,461.48}$$

$$F_r = 208.47$$

$$\theta = \tan^{-1} \left( \frac{170.93}{119.35} \right)$$

$$\theta = 55^\circ 4' 32.7$$

$$F_1 = 80N \text{ a } 42^\circ$$

$$F_2 = 65N \text{ a } 50^\circ$$

$$F_3 = 70N \text{ a } 75^\circ$$

