

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

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

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

Maxlong Uriel

Ramos Dominguez

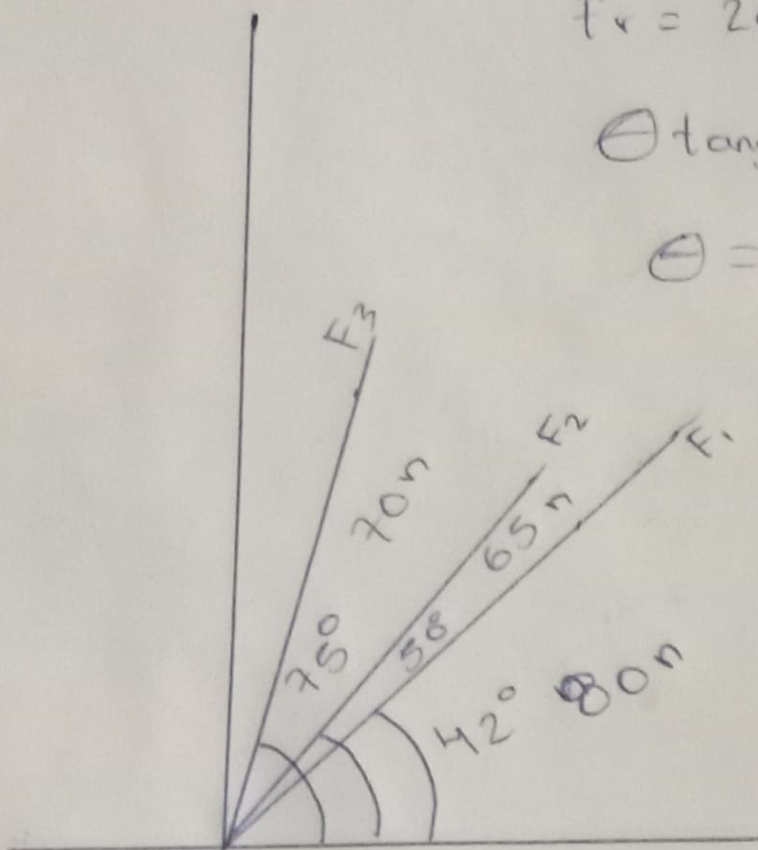
$$F_{rx} = \sqrt{119.35^2 + 170.93^2}$$

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

$$F_r = 208.47$$

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

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



$$F_{rx} = 80 \text{ n } \cos 42^\circ + 65 \text{ n } \cos 50^\circ + 70 \text{ n } \cos 75^\circ$$

$$F_{rx} = 119.35$$

$$F_{ry} = 80 \text{ n } \sin 42^\circ + 65 \text{ n } \sin 50^\circ + 70 \text{ n } \sin 75^\circ$$

$$F_{ry} = 170.93$$

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

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

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

Marlon Uziel

Ramos Dominguez

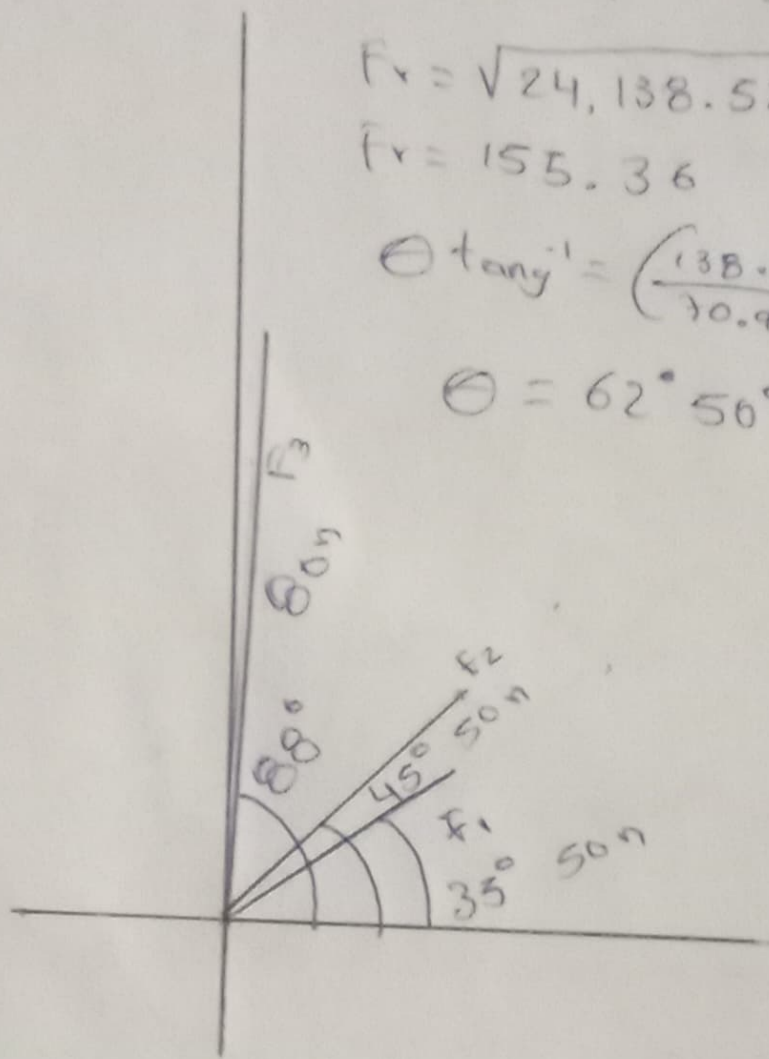
$$F_r = \sqrt{70.91^2 + 138.24^2}$$

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

$$F_r = 155.36$$

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

$$\theta = 62^\circ 56' 40.25$$



$$F_{rx} = 40 \text{ n } \cos 35^\circ + 50 \text{ n } \cos 45^\circ + 80 \text{ n } \cos 88^\circ$$

$$F_{rx} = 70.91$$

$$F_{ry} = 40 \text{ n } \sin 35^\circ + 50 \text{ n } \sin 45^\circ + 80 \text{ n } \sin 88^\circ$$

$$F_{ry} = 138.24$$

Marlong Uriel

Ramos Dominguez

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

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

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

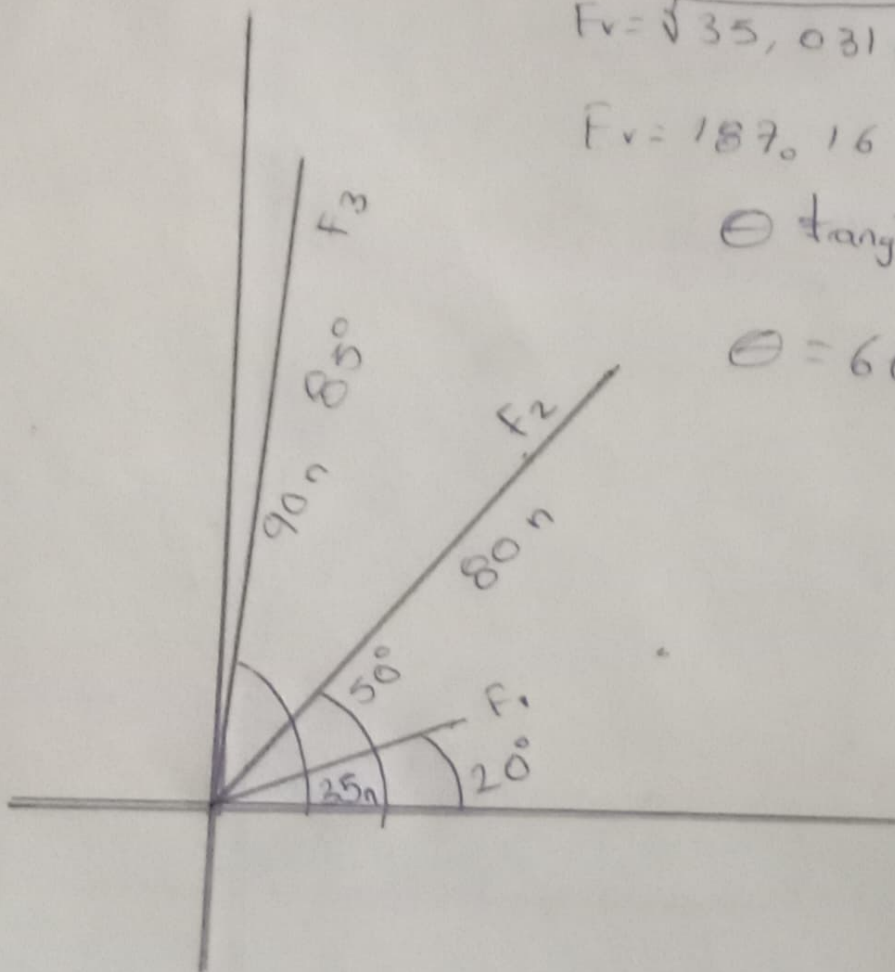
$$F_r = \sqrt{92.15^2 + 162.91^2}$$

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

$$F_r = 187.16$$

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

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



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

$$F_{rx} = 92.15$$

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

$$F_{ry} = 162.91$$