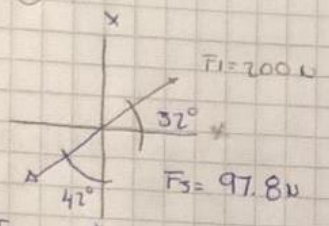
RESISTENCIA DE MATERIALES ENCONSTRUCCION

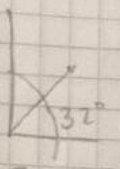
ALUMNA: LOPEZ PEREZ JESSICA YAZMIN

ACTIVIDAD: EJERCICIOS

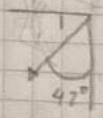
①



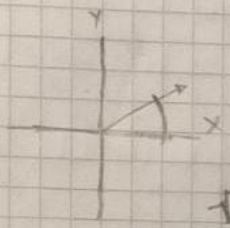
F2
128 N



Sen θ F1 = Sen 32 (200) N = 105.983
Cos θ F1 = Sen 32 (200) N = 169.609



Sen θ F2 = Sen 48 (128) = 95.122
Cos θ = F2 = Cos 48 (128) = 85.648

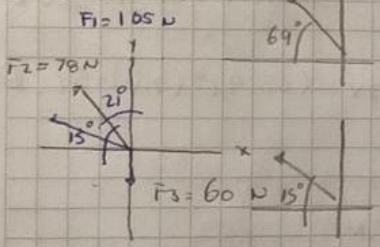


ΣF_X = 169.609 − 85.648 + 97.8 N = 181.761

ΣF_Y = 105.983 − 95.122 = 10.861

$\sqrt{(181.761)^2 + (10.861)^2} = 182.085$

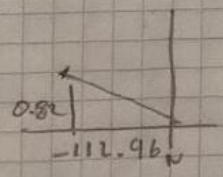
θ = 3.414°



Sen (69) (105) = 98.02
Cos (69) (105) = −37.62

Sen (15) (78) = 20.18
Cos (15) (78) = −75.35

ΣF_X = −37.62 − 75.34 = −112.96 N
ΣF_Y = 98.02 + 20.18 − 60 = 58.2 N



$h = \sqrt{(-112.96)^2 + (58.2)^2}$
h = 127.071

θ = Tan θ = $\frac{58.2}{-112.96}$

θ = −27.75
θ = 152.74