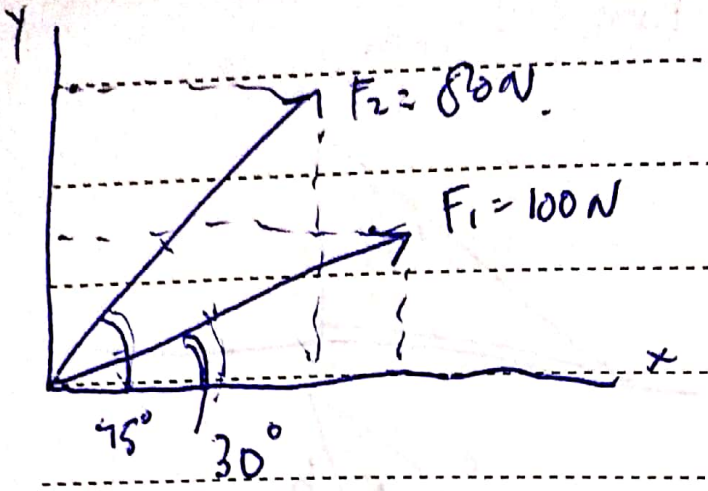


$F_1x = 100 \times \sin 30 = 50N$

$F_1y = 100 \times \cos 30 = 86,60N$

$F_2x = 80 \times \sin 45° =$

$F_2y = 80 \times \cos 45 =$

$\Sigma F_x = F_1^x + F_2^x$

$= (100)(\sin 30) + (80)(\cos 45)$

$= 143,17 \ N$

$\Sigma F_y = F_1^y + F_2^y$

$= (100)(\sin 30) + (80)(\sin 45)$

$= 106,57$

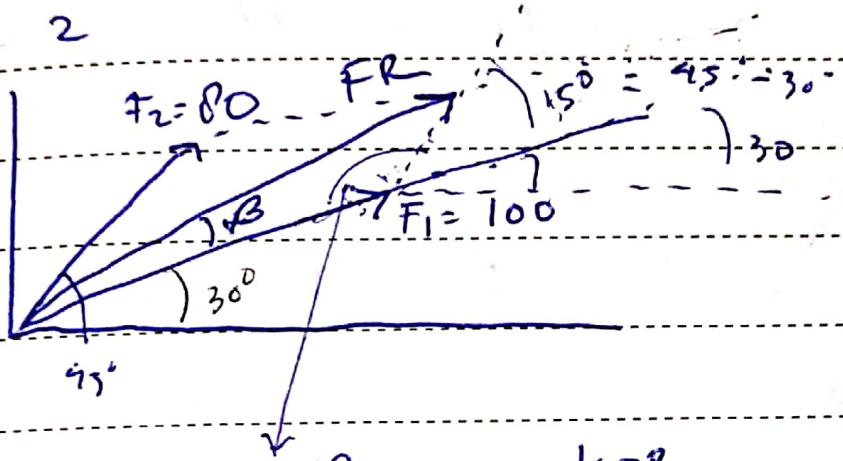
$F_R = \sqrt{(\Sigma F_x)^2 + (\Sigma F_y)^2}$

$= \sqrt{143,17^2 + 106,57^2} = 178,48 \ N$

atau $\tan(\theta) = \left(\frac{106,57}{143,17}\right)$

$\theta = 36,67^\circ$

Cara 2



$180 - 15 = 165^\circ$

$FR = \sqrt{100^2 + 80^2 - 2 \cdot 100 \cdot 80 \cdot \cos 165}$

$= 178,28$ N.

$\frac{FR}{\sin 165} = \frac{F_2}{\sin \beta}$

$\sin \beta = \frac{F_2 \times \sin 165}{FR}$

$\sin \beta = \frac{80 \times \sin 165}{178,48} =$

$\beta = 6,67^\circ$

$\theta_{akhir} = 30 + 6,67 = 36,6$