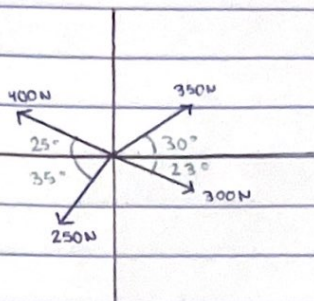




$$\sum x = 350 (\cos 30) + 300 (\cos 23) - 400 (\cos 25) - 250 (\cos 35)$$

$$\sum x = 11.94$$

$$\sum y = 350 (\sin 30) + 400 (\sin 25) - 300 (\sin 23) - 250 (\sin 35)$$

$$\sum y = 83.43$$

$$R = \sqrt{(11.94)^2 + (83.43)^2}$$

$$R = 84.28$$

$$\theta = \tan^{-1} (11.94 / 83.43)$$

$$\theta = 8.14$$

