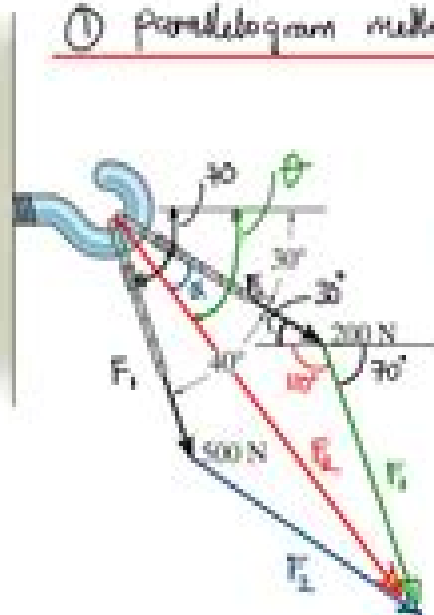


F2-2. Two forces act on the hook. Determine the magnitude of the resultant force, and the direction measured clockwise from the x -axis.

① Parallelogram method; $F_1 = 500 \text{ N}$; $F_2 = 200 \text{ N}$



cosine law:

$$F_R = \sqrt{F_1^2 + F_2^2 - 2(F_1)(F_2) \cos(10^\circ + 10^\circ)}$$

$$F_R = 665.74 \text{ N}$$

$$\theta = 30^\circ + 20^\circ$$

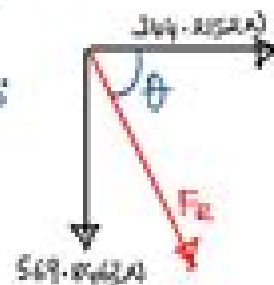
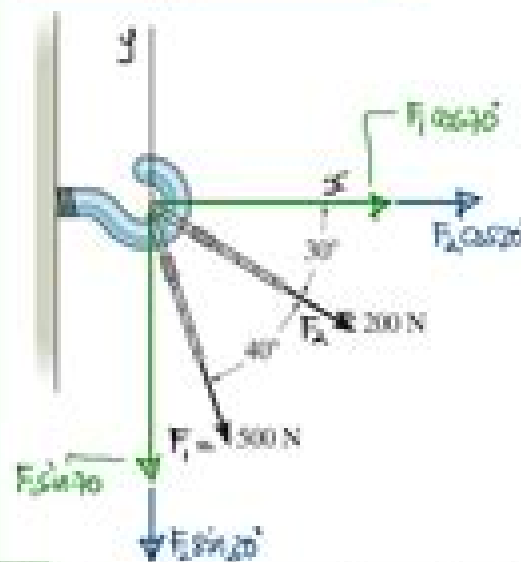
Sine law:

$$\frac{\sin \alpha}{F_1} = \frac{\sin(20^\circ + 10^\circ)}{F_R}$$

$$\alpha = \sin^{-1} \left[\frac{F_1 \sin(20^\circ + 10^\circ)}{F_R} \right] = 28.87^\circ$$

$$\theta = 58.87^\circ$$

② x & y components



$$F_R = \sqrt{F_{Rx}^2 + F_{Ry}^2}$$

$$F_R = 665.74 \text{ N}$$

$$\theta = \tan^{-1} \left(\frac{F_{Ry}}{F_{Rx}} \right)$$

$$\theta = 58.87^\circ$$

F	$x(N)$	$y(N)$
F_1	$500 \cos 30^\circ$	$-500 \sin 30^\circ$
F_2	$200 \cos 20^\circ$	$-200 \sin 20^\circ$
ΣF	244.252	-569.8463

$$F_{Rx} = 244.252 \text{ N}; F_{Ry} = -569.8463 \text{ N}$$

Hibbeler Statics 13th Edition Chapter 3 Solutions

Snorri Gudmundsson



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