

*2-24.

Determine the magnitude of the resultant force and its direction, measured counter-clockwise from the positive x axis.



Solution

Scalar Notation. Summing the force components along x and y axes algebraically by referring to Fig. a,

$$\sum F_{x_1} = \sum F_x \quad \sum F_{x_2} = 200 \cos 45^\circ + 150 \cos 30^\circ = 313.33 \text{ N} \quad \text{Ans.}$$

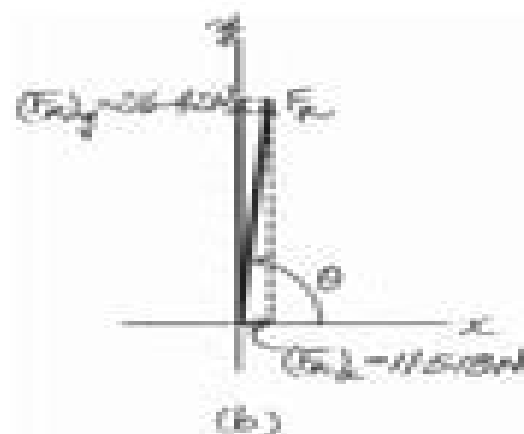
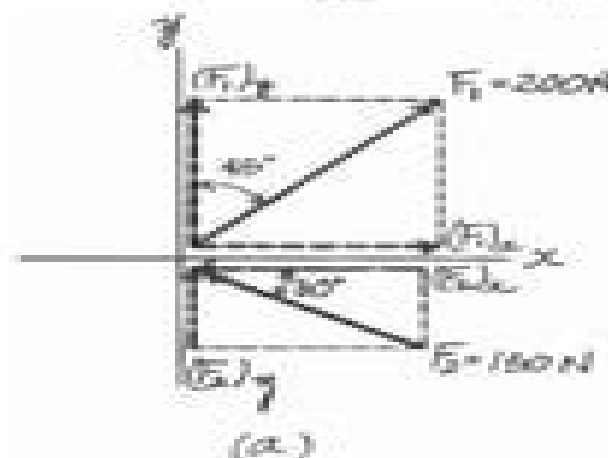
$$+\circlearrowleft \sum F_{y_1} = \sum F_y \quad \sum F_{y_2} = 200 \sin 45^\circ + 150 \sin 30^\circ = 216.42 \text{ N} \quad \text{Ans.}$$

Referring to Fig. b, the magnitude of the resultant force F_R is

$$F_R = \sqrt{(\sum F_{x_2})^2 + (\sum F_{y_2})^2} = \sqrt{(313.33)^2 + (216.42)^2} = 384.73 \text{ N} = 385 \text{ N} \quad \text{Ans.}$$

And the directional angle α of F_R measured counter-clockwise from the positive x axis is

$$\alpha = \tan^{-1} \left(\frac{\sum F_{y_2}}{\sum F_{x_2}} \right) = \tan^{-1} \left(\frac{216.42}{313.33} \right) = 34.69^\circ = 34.7^\circ \quad \text{Ans.}$$



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