

\*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.  $a$ ,

$$\sum F_{x_1} = \Sigma F_x \quad \Sigma F_{x_1} = 200 \cos 45^\circ + 150 \cos 30^\circ = 313.116 \text{ N} \quad \Sigma$$

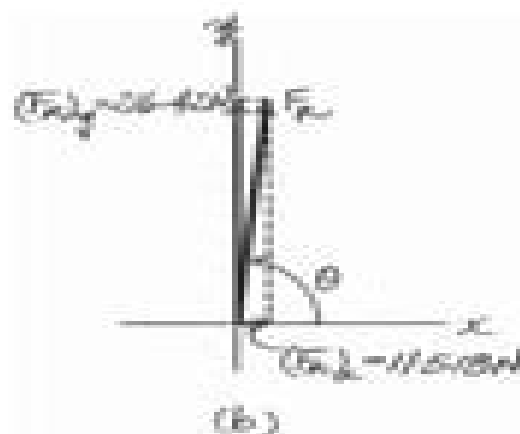
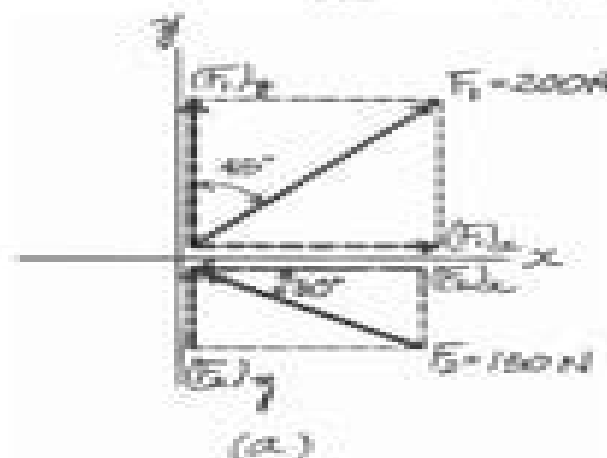
$$+ \uparrow \Sigma F_{y_1} = \Sigma F_y \quad \Sigma F_{y_1} = 200 \sin 45^\circ + 150 \sin 30^\circ = 216.42 \text{ N} \quad \Sigma$$

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

$$F_R = \sqrt{(\Sigma F_{x_1})^2 + (\Sigma F_{y_1})^2} = \sqrt{(313.116)^2 + (216.42)^2} = 384.73 \text{ N} = 385 \text{ N} \quad \text{Ans.}$$

And the directional angle  $\alpha$  of  $F_R$  measured counter-clockwise from the positive  $x$  axis is

$$\alpha = \tan^{-1} \frac{\Sigma F_{y_1}}{\Sigma F_{x_1}} = \tan^{-1} \frac{216.42}{313.116} = 34.69^\circ = 34.7^\circ \quad \text{Ans.}$$



# Mechanics Of Materials 5th Edition Solutions Scribd

**Padhraic Smyth**



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