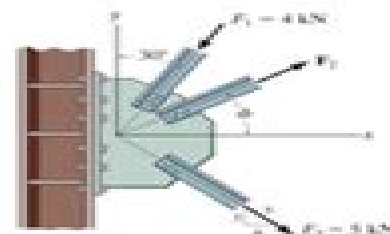


2-38. If $\phi = 30^\circ$ and the resultant force acting on the gusset plate is directed along the positive x axis, determine the magnitudes of F_1 and the resultant force.



Rectangular Components: By referring to Fig. a, the x and y -components of F_1 , F_2 , F_3 , and F_4 can be written as

$$(F_1)_x = 4 \sin 30^\circ = 2 \text{ kN}$$

$$(F_1)_y = 4 \cos 30^\circ = 3.464 \text{ kN}$$

$$(F_2)_x = F_2 \cos 30^\circ = 0.8660 F_2$$

$$(F_2)_y = F_2 \sin 30^\circ = 0.5 F_2$$

$$(F_3)_x = 5 \left(\frac{4}{5} \right) = 4 \text{ kN}$$

$$(F_3)_y = 5 \left(\frac{3}{5} \right) = 3 \text{ kN}$$

$$(F_4)_x = F_4$$

$$(F_4)_y = 0$$

Resultant Force: Summing the force components algebraically along the x and y axes,

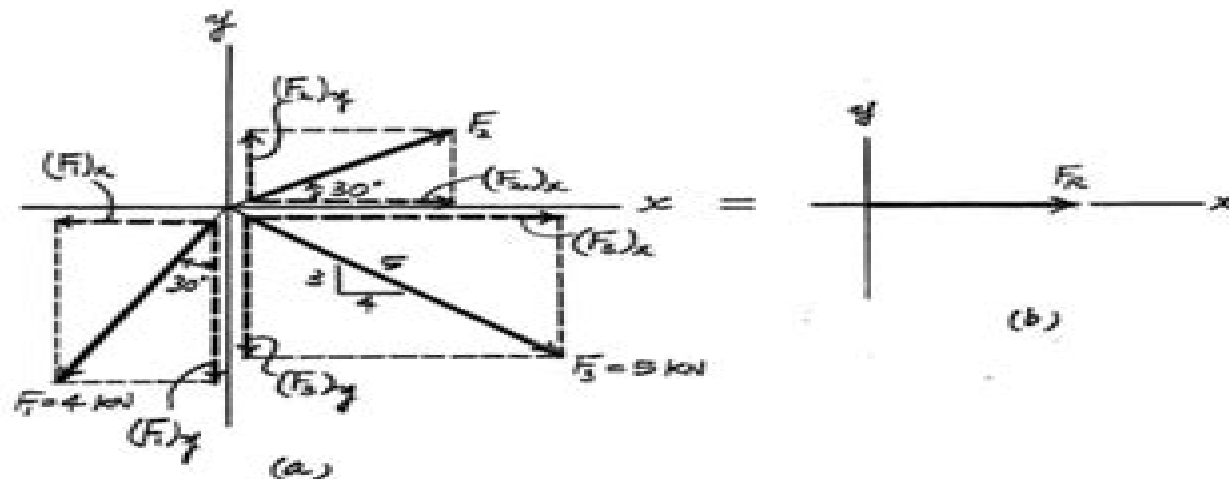
$$+\nearrow \Sigma (F_R)_y = \Sigma F_y: \quad 0 = -3.464 + 0.5 F_2 - 3$$

$$F_2 = 12.928 \text{ kN} = 12.93 \text{ kN}$$

$$\begin{aligned} \rightarrow \Sigma (F_R)_x = \Sigma F_x: \quad F_R = -2 + 0.8660(12.93) + 4 \\ = 13.2 \text{ kN} \end{aligned}$$

Ans.

Ans.



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