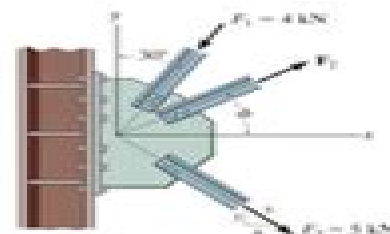


2-38. If  $\phi = 30^\circ$  and the resultant force acting on the gusset plate is directed along the positive  $x$  axis, determine the magnitudes of  $F_1$  and the resultant force.



**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,

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

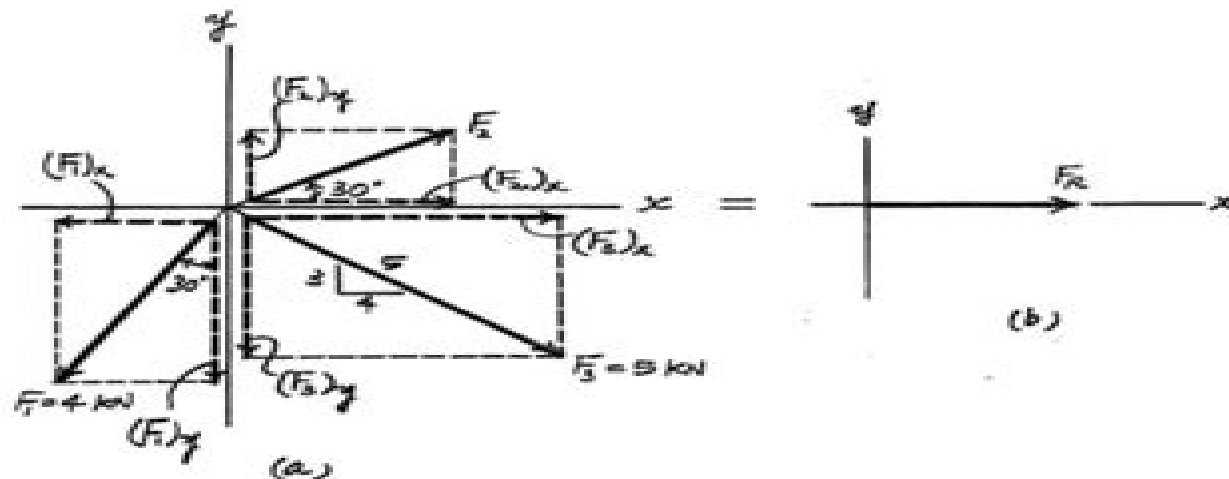
$$F_2 = 12.928 \text{ kN} = 12.9 \text{ kN}$$

$$+\rightarrow \Sigma (F_R)_x = \Sigma F_x: F_R = -2 + 0.8660(12.928) + 4$$

$$= 13.2 \text{ kN}$$

Ans.

Ans.



# Hibbeler Statics Solution Manual 12th

**Andreas Öchsner**



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