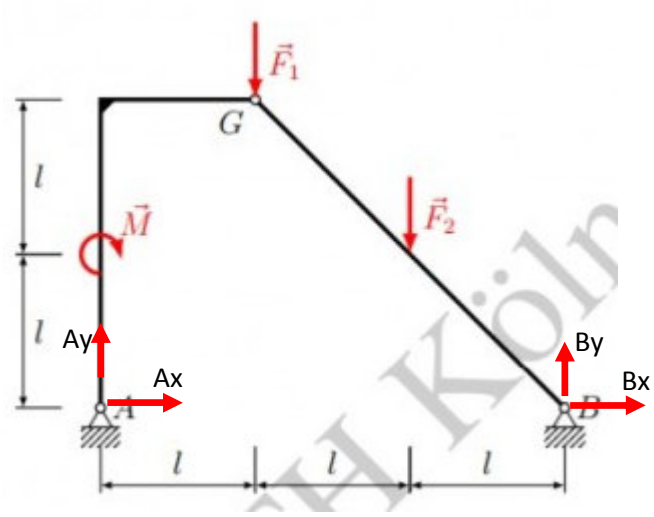
Gesamtsystem:



Lösungshilfe: $A_x = \frac{3}{2}F,\ A_y = 0,\ B_x = -\frac{3}{2}F,\ B_y = 2F$

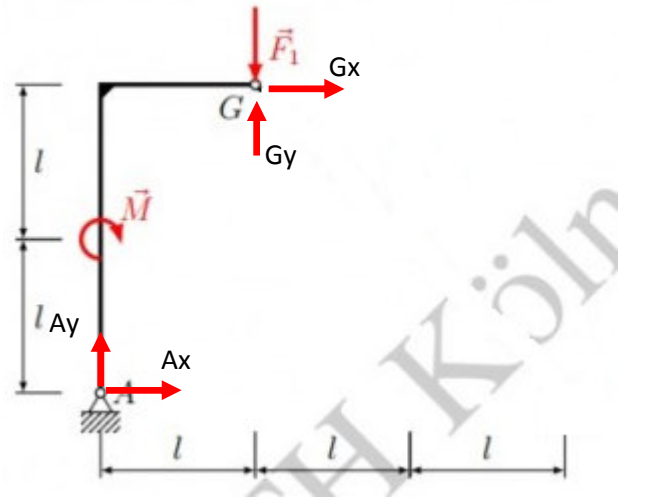
$$\sum M_A = -F \cdot l - F \cdot 2l + B_y \cdot 3l - M = -F \cdot l - F \cdot 2l + B_y \cdot 3l - F \cdot 3l = 0$$

$$B_y = 2F$$

$$\sum M_B = F \cdot 2l + F \cdot l - A_y \cdot 3l - M = F \cdot 2l + F \cdot l - A_y \cdot 3l - F \cdot 3l = 0$$

$$A_y = 0$$

Teilsystem 1:



Lösungshilfe: $A_x = \frac{3}{2}F,\ A_y = 0,\ B_x = -\frac{3}{2}F,\ B_y = 2F$

$$\sum M_G = -A_y \cdot l - M + A_x \cdot 2l = 0 - F \cdot 3l + A_x \cdot 2l = 0 \qquad A_x = \frac{3}{2}F$$

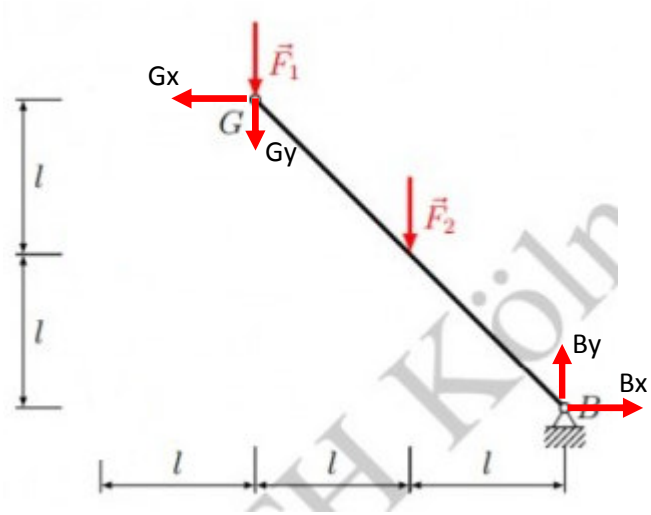
$$\sum K_x = A_x + G_x = \frac{3}{2}F + G_x = 0 \qquad G_x = -\frac{3}{2}F$$

$$\sum K_y = A_y + G_y - F = 0 + G_y - F = 0$$

Lösungshilfe: $A_x = \frac{3}{2}F,\ A_y = 0,\ B_x = -\frac{3}{2}F,\ B_y = 2F$

$$G_y = F$$

Teilsystem 2:



$$\sum M_G = B_y \cdot 2l - F \cdot l + B_x \cdot 2l = 2F \cdot 2l - F \cdot l + B_x \cdot 2l = 0$$

$$B_x = -\frac{3}{2}F$$