

$$R_A = 9,375 \text{ kH}$$
$$R_B = 5,625 \text{ kH}$$

$$\sum X = 0$$

$$-F_1 \cdot 2 - F_2 \cdot 5 + R_B \cdot 8 + 15 = 0$$

$$-5 \cdot 2 - 10 \cdot 5 + R_B \cdot 8 + 15 = 0$$

$$-10 - 50 + R_B \cdot 8 + 15 = 0$$

$$R_B \cdot 8 - 45 = 0$$

$$R_B \cdot 8 = 45$$

$$R_B = 45 / 8 = \underline{\underline{5,625 \text{ кН}}}$$

Сумма моментов относительно т. В

$$\sum Y = 0$$

$$+M + F_2 \cdot 3 + F_1 \cdot 6 - R_A \cdot 8 = 0$$

$$15 + 10 \cdot 3 + 5 \cdot 6 - R_A \cdot 8 = 0$$

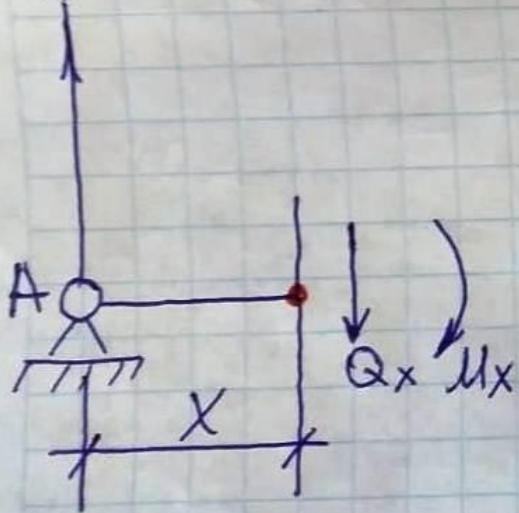
$$15 + 30 + 30 - R_A \cdot 8 = 0$$

$$75 - R_A \cdot 8 = 0$$

$$R_A \cdot 8 = 75$$

$$R_A = 75/8 = \underline{\underline{9,375 \text{ кН}}}$$

$$R_A = 9,375 \text{ kH}$$



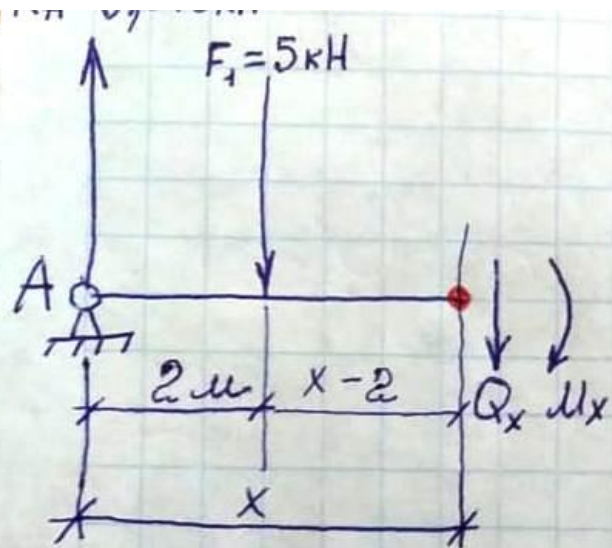
Q_x
 $\uparrow + \quad \downarrow -$

$$Q_x = R_A =$$
$$\underline{9,375 \text{ kH}}$$

M_x
 $-(\downarrow) \quad (\curvearrowright) +$

$$M_x = R_A \cdot x =$$
$$\boxed{9,375 \cdot x}$$

$$x=0 \quad M_x = 9,375 \cdot 0 = 0$$
$$x=1 \quad M_x = 9,375 \cdot 1 = 9,375 \text{ kH}$$
$$x=2 \quad M_x = 9,375 \cdot 2 = \underline{18,75 \text{ kH}}$$



$$Q_x = R_A - F_1 =$$

$$= 9,375 - 5 =$$

$$\underline{\underline{4,375 \text{ kN}}}$$

$$M_x = R_A \cdot x - F_1 \cdot (x - 2) =$$

$$= 9,375 \cdot x - 5(x - 2) =$$

$$9,375 \cdot x - 5x + 10 =$$

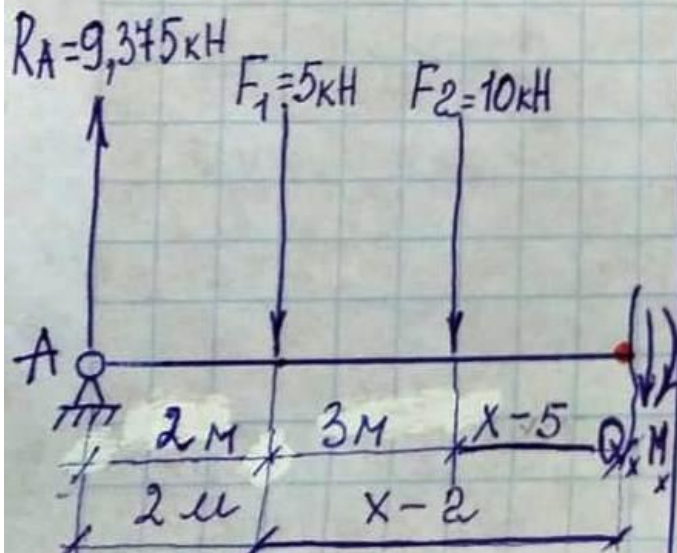
$$= \underline{\underline{10 + 4,375 \cdot x}}$$

$$x=2 \quad M_x = 10 + 4,375 \cdot 2 = 18,75 \text{ kN}$$

$$x=3 \quad M_x = 10 + 4,375 \cdot 3 = 23,125 \text{ kN}$$

$$x=4 \quad M_x = 10 + 4,375 \cdot 4 = 27,5 \text{ kN}$$

$$x=5 \quad M_x = 10 + 4,375 \cdot 5 = \underline{\underline{31,875 \text{ kN}}}$$



$$Q_x = R_A - F_1 - F_2 =$$

$$= 9,375 - 5 - 10 =$$

$$\underline{\underline{-5,625 \text{ kN}}}$$

$$M_x = R_A \cdot x - F_1(x - 2) - F_2(x - 5) =$$

$$= 9,375 \cdot x - 5(x - 2) - 10(x - 5) =$$

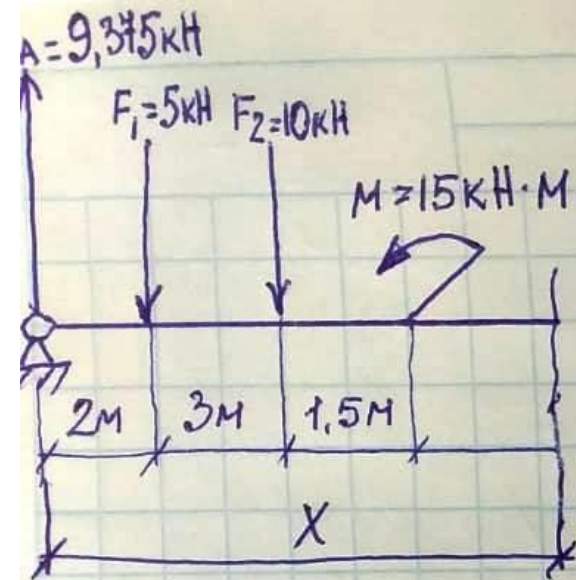
$$9,375 \cdot x - 5 \cdot x + 10 - 10 \cdot x + 50 =$$

$$\underline{\underline{60 - 5,625 \cdot x}}$$

$$x=5 \quad M_x = 60 - 5,625 \cdot 5 = 31,875 \text{ kN}$$

$$x=6 \quad M_x = 60 - 5,625 \cdot 6 = 26,25 \text{ kN}$$

$$x=6,5 \quad M_x = 60 - 5,625 \cdot 6,5 = \underline{\underline{23,44 \text{ kN}}}$$

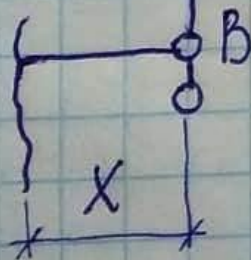


$$Q_x = -5,625 \text{ kN}$$

$$M_x = R_A \cdot X - F_1(x-2) - F_2(x-5) - 15$$

$$\begin{aligned}
 x = 6,5 & \quad M_x = 8,44 \\
 x = 7 & \quad M_x = 5,625 \\
 x = 8 & \quad M_x = 0
 \end{aligned}$$

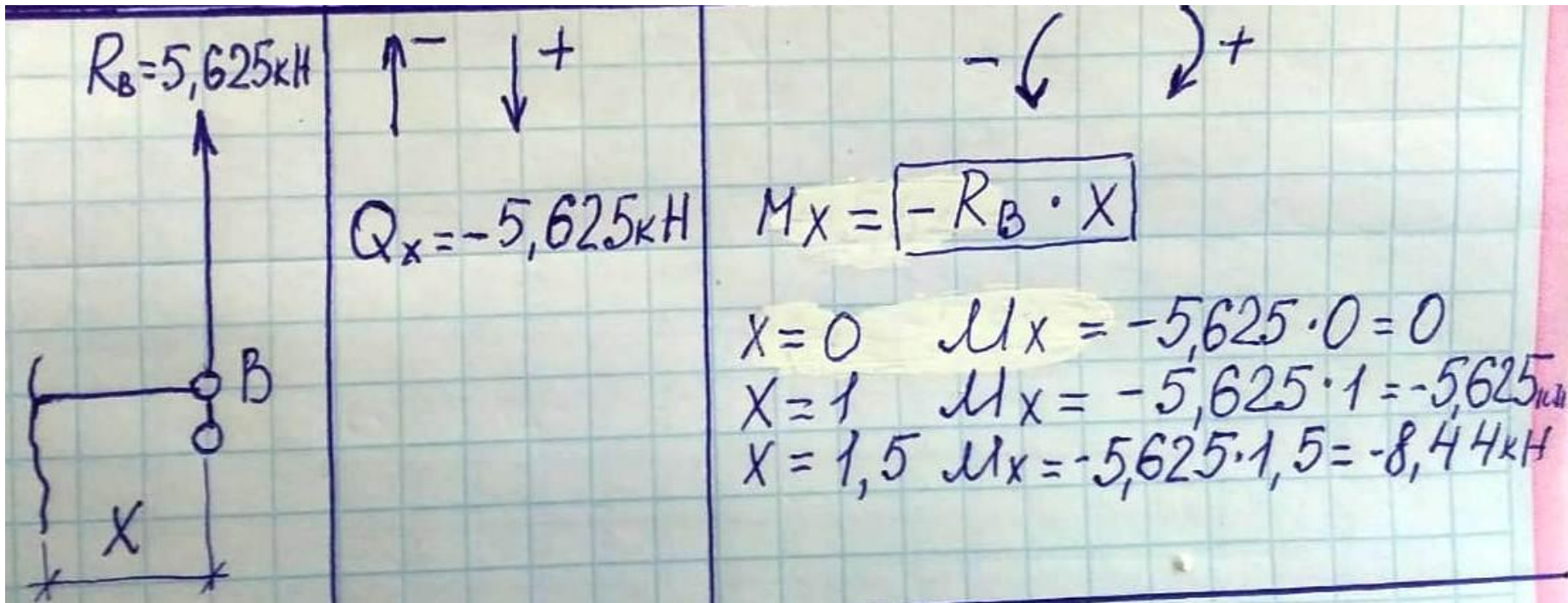
$$R_B = 5,625 \text{ kN}$$

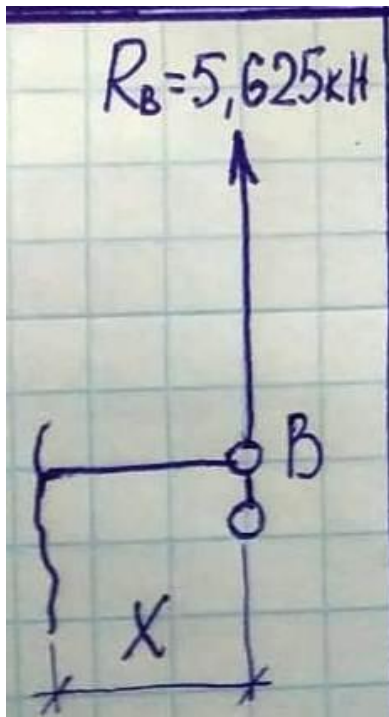


$$Q_x = -5,625 \text{ kN}$$

$$M_x = -R_B \cdot X$$

$$\begin{aligned}
 x = 0 & \quad M_x = -5,625 \cdot 0 = 0 \\
 x = 1 & \quad M_x = -5,625 \cdot 1 = -5,625 \text{ kN} \\
 x = 1,5 & \quad M_x = -5,625 \cdot 1,5 = -8,44 \text{ kN}
 \end{aligned}$$





$\uparrow^- \quad \downarrow^+$
 $Q_x = -5,625 \text{ kH}$

$-\curvearrowright \quad \curvearrowright^+$
 $M_x = \boxed{-R_B \cdot x}$

$x = 0 \quad M_x = -5,625 \cdot 0 = 0$

$x = 1 \quad M_x = -5,625 \cdot 1 = -5,625 \text{ kH}$

$x = 1,5 \quad M_x = -5,625 \cdot 1,5 = -8,44 \text{ kH}$

