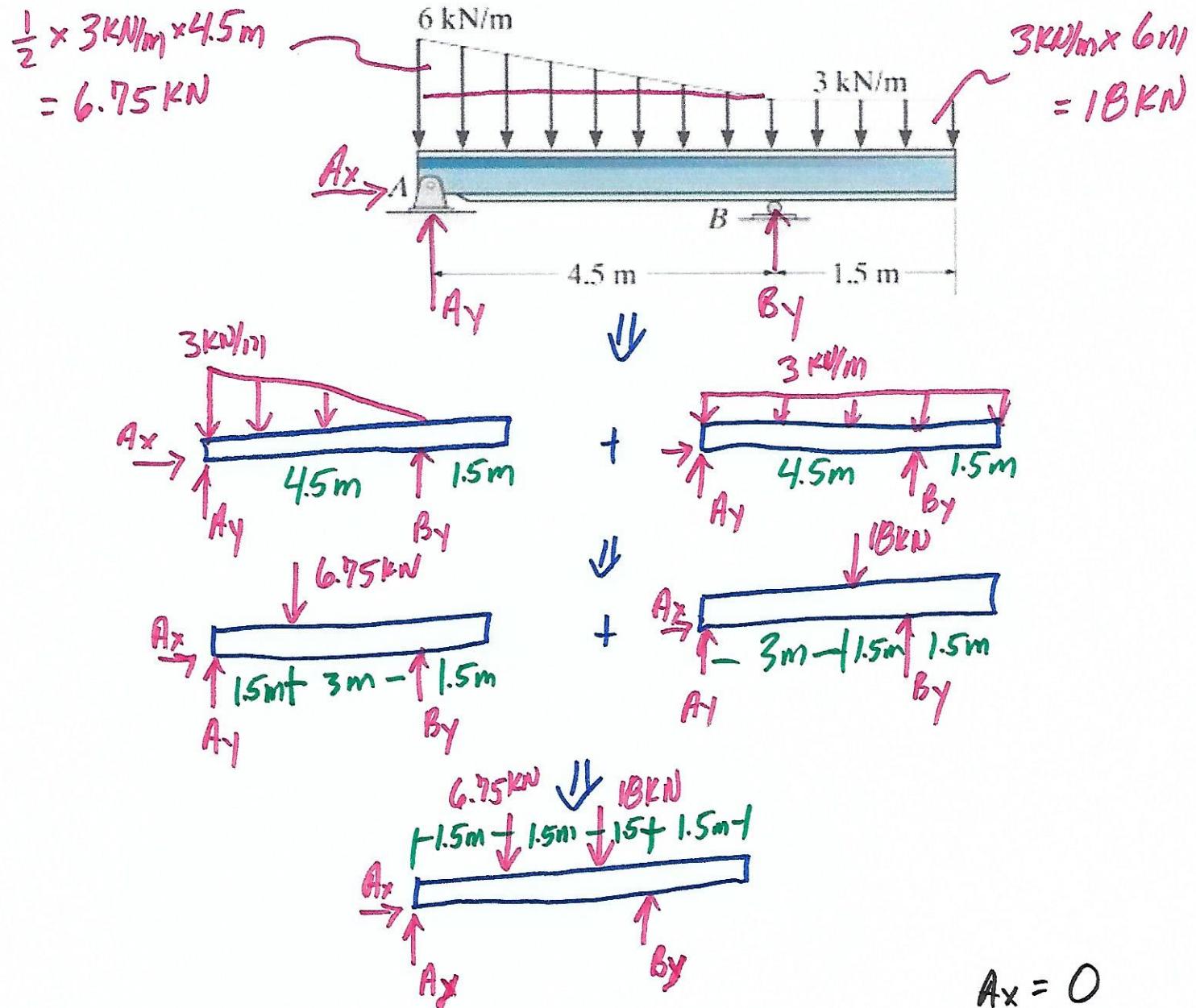


Distributed Loads

Determine the support reactions using superposition to simplify the distributed load.



$$\rightarrow \sum F_x = 0 = A_x \quad A_x = 0$$

$$\rightarrow \sum M_A = 0 = 6.75(1.5) + 18(3) - 4.5 B_y$$

$$\uparrow \sum F_y = 0 = A_y - 6.75 - 18 + B_y \quad B_y = 14.25$$

$$A_x = 0$$

$$B_y = 14.25 \text{ kN} \uparrow$$

$$A_y = 10.5 \text{ kN} \uparrow$$