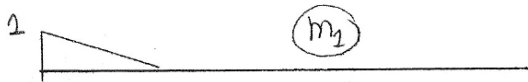
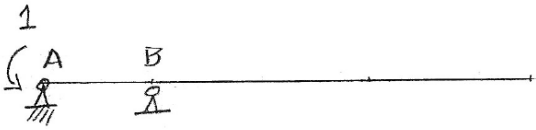


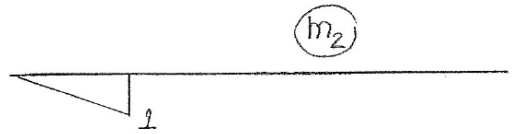
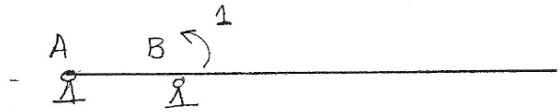
EIF₁

$$GH = 6 - 3 = 3$$



$$\varphi_A = \sum_{b=1}^{nb} \int_0^{l_b} \frac{M m_1}{EI} dx = \frac{a}{6EI} (1 \times 0,2Pa)$$

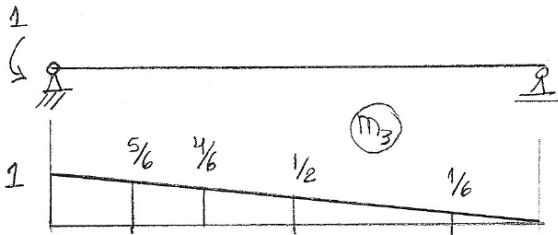
$$\varphi_A = \frac{Pa^2}{30EI} (\uparrow)$$



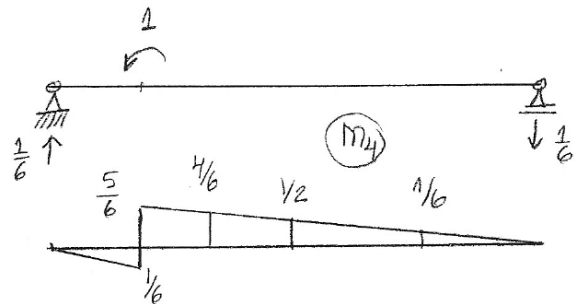
$$\varphi_B = \frac{a}{3EI} (-1 \times 0,2Pa) = -\frac{Pa^2}{15EI}$$

$$\varphi_B = -\frac{Pa^2}{15EI} (\downarrow)$$

EIF₂



$$\begin{aligned} \varphi_A &= \frac{a}{6EI} [0,2Pa(1 + \frac{5}{3})] + \frac{a}{6EI} [0,2Pa(\frac{5}{3} + \frac{2}{3}) - 0,325Pa(\frac{5}{6} + \frac{4}{3})] \\ &\quad + \frac{a}{6EI} [-0,325Pa(\frac{4}{3} + \frac{1}{2}) + 0,15Pa(\frac{2}{3} + 1)] \\ &\quad + \frac{2a}{6EI} [0,15Pa(2 + \frac{1}{6}) - 0,05Pa(\frac{1}{2} + \frac{1}{3})] - \frac{a}{3EI} (0,05Pa \times \frac{1}{6}) \\ &= \frac{Pa^2}{30EI} (\uparrow) \end{aligned}$$



$$\begin{aligned} \varphi_B &= \varphi_A - \frac{a}{6EI} [0,2Pa(1 + \frac{5}{3})] - \frac{a}{3EI} [0,2Pa \times \frac{1}{6}] \\ &= \frac{Pa^2}{30EI} - \frac{4Pa^2}{45EI} - \frac{Pa^2}{90EI} = -\frac{Pa^2}{15EI} (\downarrow) \end{aligned}$$