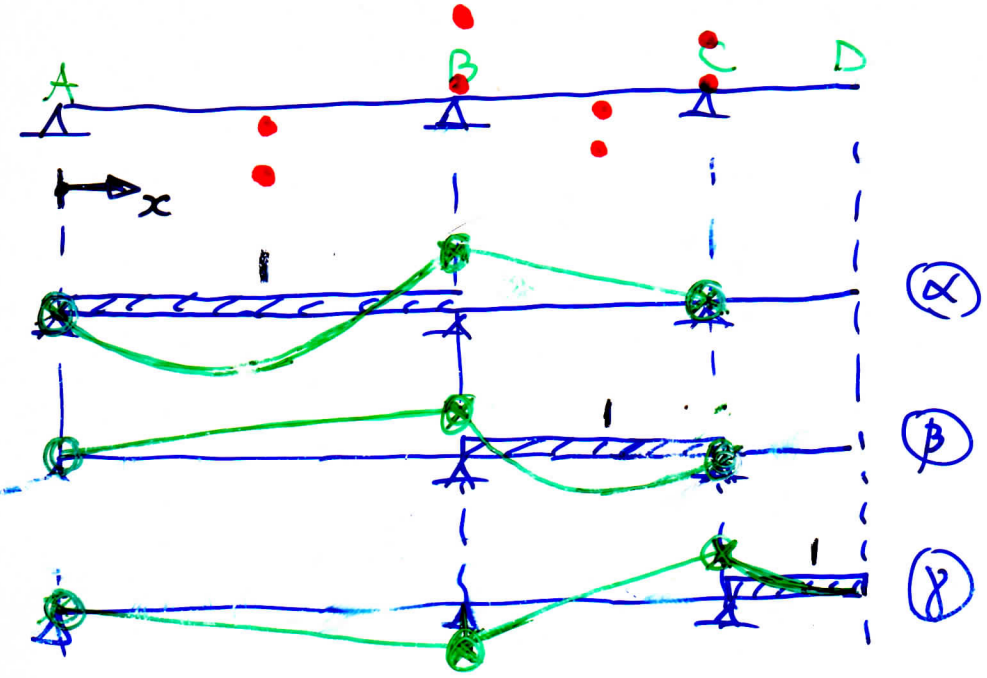
$\gamma_g \cdot G_k + \gamma_q \cdot Q_{1k} + \gamma_q \sum \psi_{i1} Q_{ik}$ (0.6)

g i.β. = ...

επκ = ---

q_k = ---

q_k = ...



Απαντήσεις:

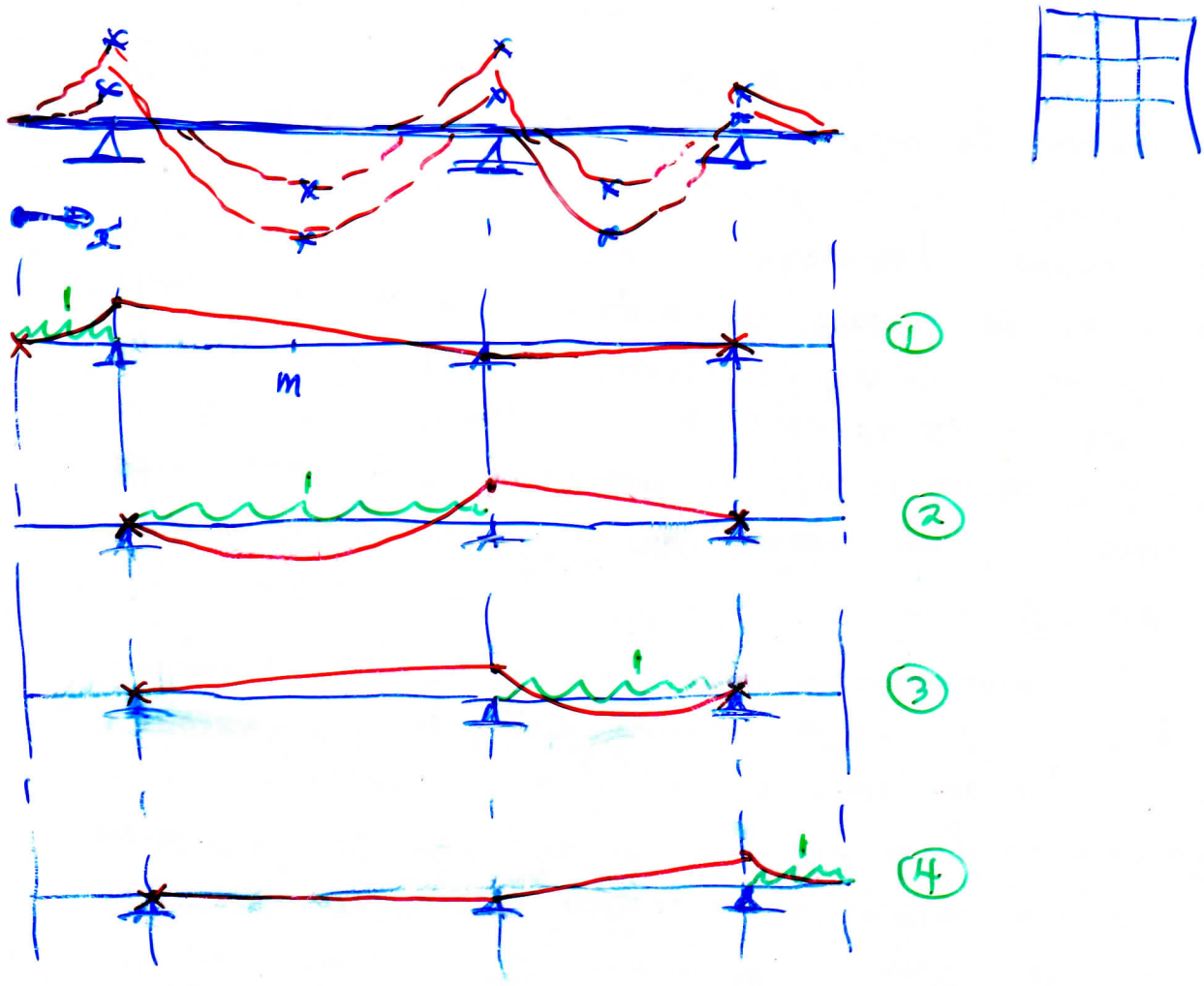
$\min M_B = 1.35^{\alpha} g_k M_B^{\alpha} + 1.35\, g_k^{\beta} M_B^{\beta} + 1.00\, g_k^{\gamma} M_B^{\gamma}$ μόνιμα

$+ 1.50\, q_k^{\alpha} M_B^{\alpha} + 1.50\, q_k^{\beta} M_B^{\beta} + 0\, q_k^{\gamma} M_B^{\gamma}$

M_B = 1.00 1.00 1.35

Ανοιγ.	x [m]	M^{α}	M^{β}	M^{γ}	M_{max}	M_{min}
		g=...	...	...		
		q=...	...	...		
Στηρ. A	0.0	...	...	...		
1	0.20	...	...	...		
	0.40	...	...	...		
	⋮					
	3.00	...	...	...		
B	3.00					

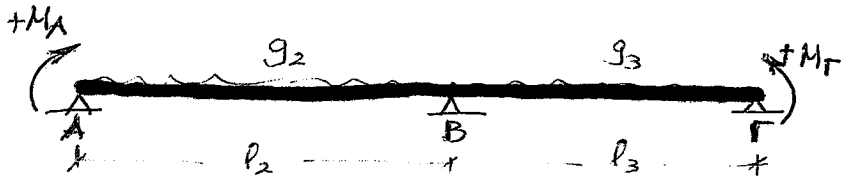
2



$$\max M = 1.0\,M_{g1} + 1.35\,M_{g2} + 1.0\,M_{g3} + 1.35\,M_{g4} +$$
$$+ 0.0\,M_{q1} + 1.50\,M_{q2} + 0\,M_{q3} + 1.50\,M_{q4}$$

$$\min M = \begin{matrix} 1.35 & 1.00 & 1.35 & 1.00 \\ 1.50 & 0 & 1.50 & 0 \end{matrix}$$

x	①	②	③	④	max M	min M
0						
0.2						
0.4						
0						
0.2						



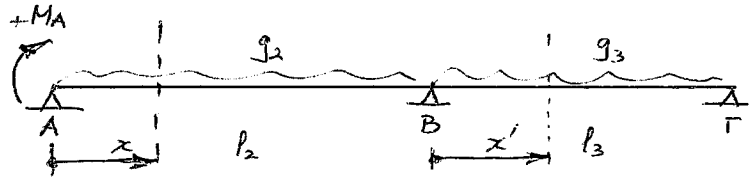
$$M_B = -\frac{(g_2 l_2^3 + g_3 l_3^3)}{8(l_2+l_3)} - \frac{M_A \cdot l_2}{2(l_2+l_3)} - \frac{M_\Gamma \cdot l_3}{2(l_2+l_3)}$$

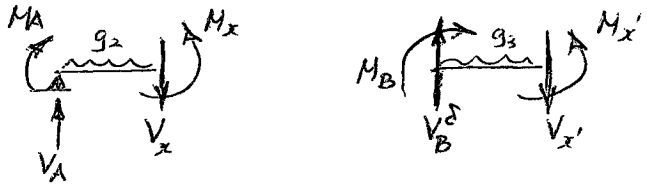
$$V_A = \frac{g_2 l_2}{2} + \left(\frac{-M_A + M_B}{l_2}\right)$$

$$V_B^{\alpha} = -\frac{g_2 l_2}{2} + \left(\frac{M_A - M_B}{l_2}\right)$$

$$V_B^{\delta} = \frac{g_3 l_3}{2} + \left(\frac{-M_B + M_\Gamma}{l_3}\right)$$

$$V_\Gamma = \frac{-g_3 l_3}{2} + \left(\frac{M_B - M_\Gamma}{l_3}\right)$$





$$M_x = M_A + V_A \cdot x - \frac{g_2 x^2}{2}$$

$$M_{x'} = M_B + V_B^{\delta} \cdot x - \frac{g_3 x'^2}{2}$$