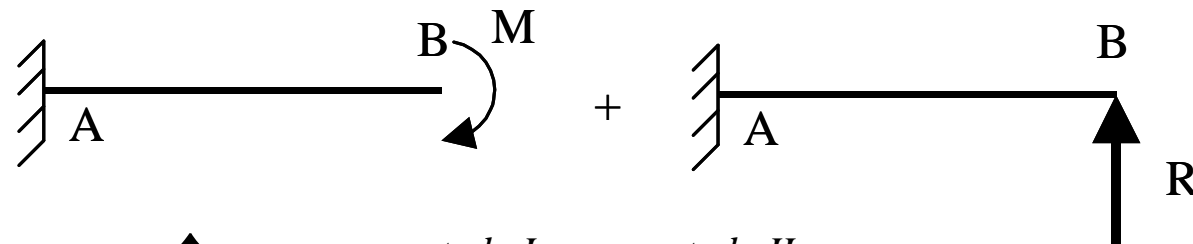
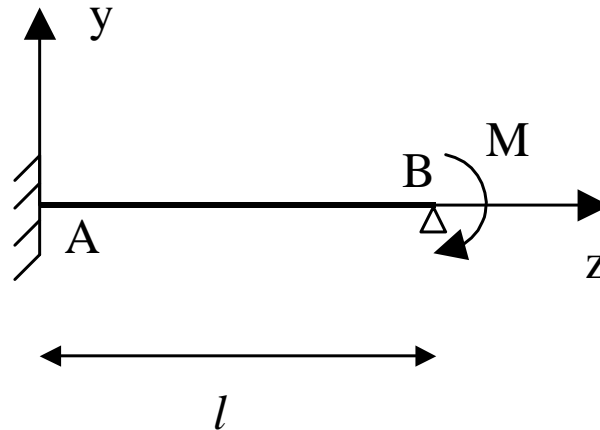


APLICACIÓN A PROBLEMAS HIPERESTÁTICOS



$$\uparrow v_B = v_B^{\text{estado I}} + v_B^{\text{estado II}} = 0$$

$$\uparrow v_B^{\text{estado I}} = -\int_A^B \frac{M(l-z)}{EI} dz = -\frac{Ml^2}{2EI}$$

$$\uparrow v_B^{\text{estado II}} = \frac{Rl^3}{3EI}$$

$$-\frac{Ml^2}{2EI} + \frac{Rl^3}{3EI} = 0 \Rightarrow R = \frac{3M}{2l}$$