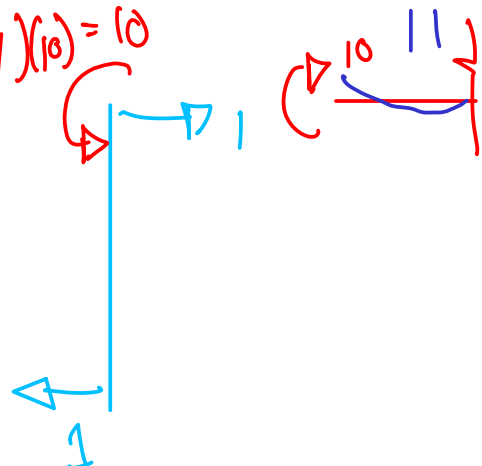
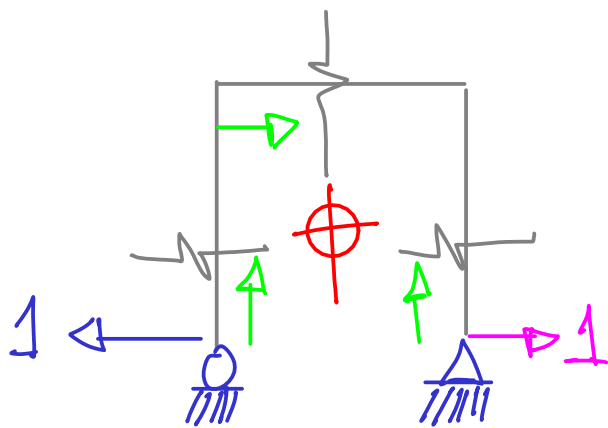


$$\delta_{P h_A} = d?$$

Miembro	Origen	Límites	M_p	M_a
AB	A	0-10	0	x
BC	B	0-10	$10x - \frac{2xx}{2}$	10
CD	D	0-10	0	x

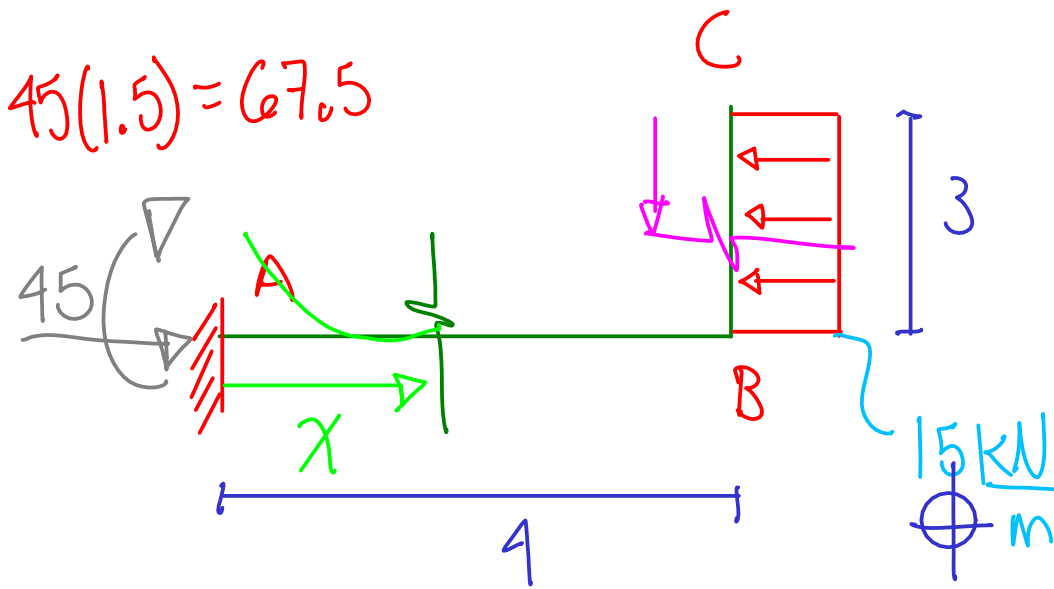
$$(1)(10) = 10$$



$$E I \delta_{P h_A} = \int_0^{10} \frac{(0)(x)}{500} dx + \int_0^{10} \frac{(10x - x^2)(10)}{800} dx + \int_0^{10} \frac{(0)(x)}{500} dx$$

$$= \int_0^{10} 100x - 10x^2 dx = 50x^2 - \frac{10}{3}x^3 \Big|_0^{10} = \frac{5000}{3}$$

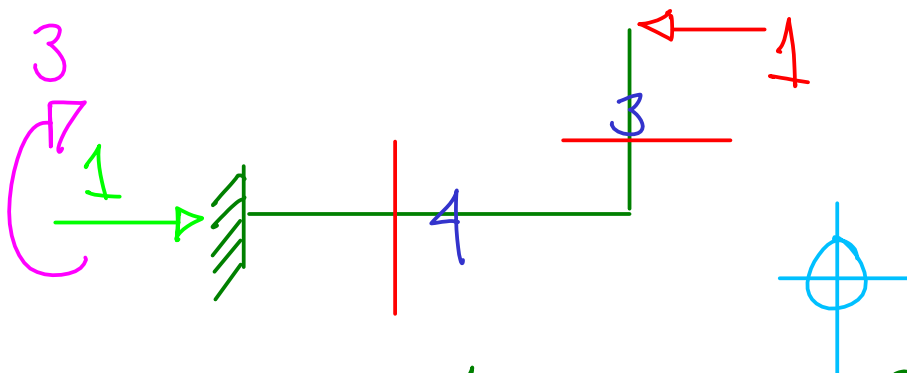
$$\delta_{p h_A} = \frac{5000}{3EI} = \frac{5000 (1728)}{3 (29,000) (800)} = 0.124 \text{ in} \leftarrow$$



$\delta_{p h_C} = d?$

$EI = \text{cte.}$

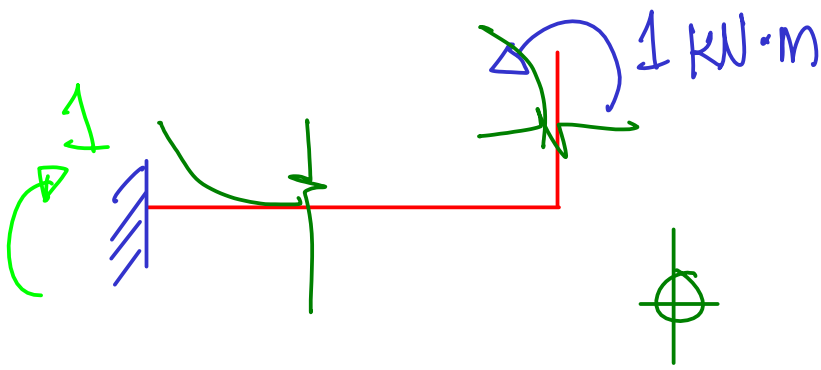
Miembro	Origen	Limites	M_p	M_Q	M_M
AB	A	0-4	67.5	3	1
BC	C	0-3	$15x\left(\frac{x}{2}\right)$	x	1



$$EI \delta_{p h_C} = \int_0^4 67.5(3) dx + \int_0^3 7.5x^2(x) dx$$

$$202.5x \Big|_0^4 + \frac{7.5x^4}{4} \Big|_0^3 = 810 + 151.875$$

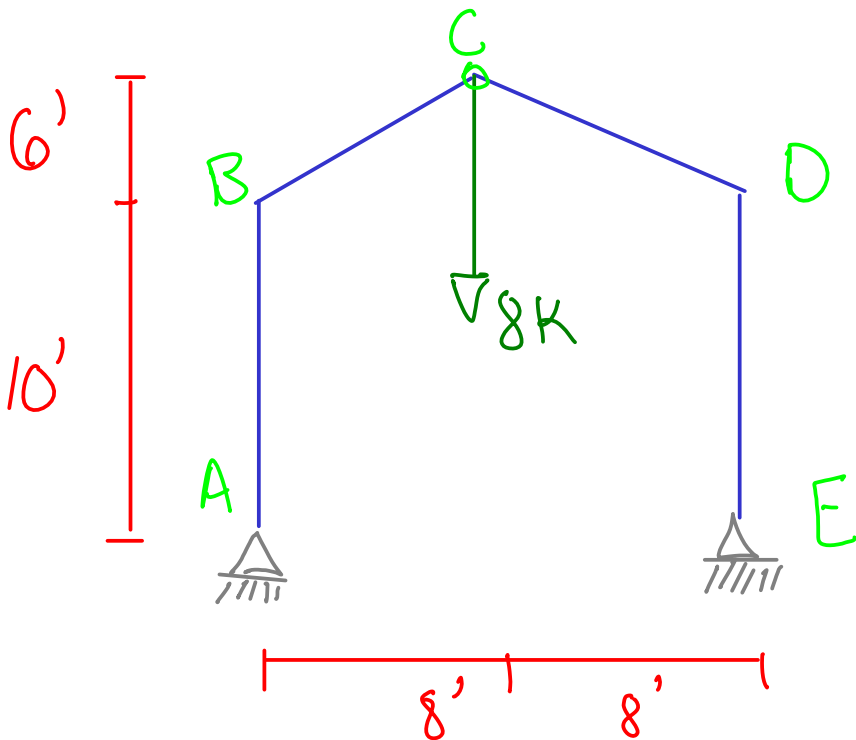
$$\delta_{p h_C} = \frac{961.9}{EI}$$



$$EI \theta_P C = \int_0^4 67.5(1) dx + \int_0^3 7.5x^2(1) dx$$

$$67.5x \Big|_0^4 + \frac{7.5x^3}{3} \Big|_0^3 = 270 + 67.5 = 337.5$$

$$\theta_C = \frac{337.5}{EI} \curvearrowright$$



$$\delta_{V \uparrow C} = d?$$

$$EI = \text{cte.}$$