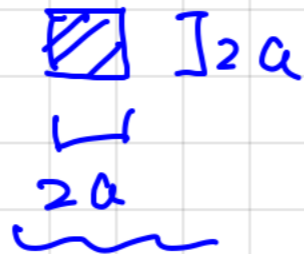


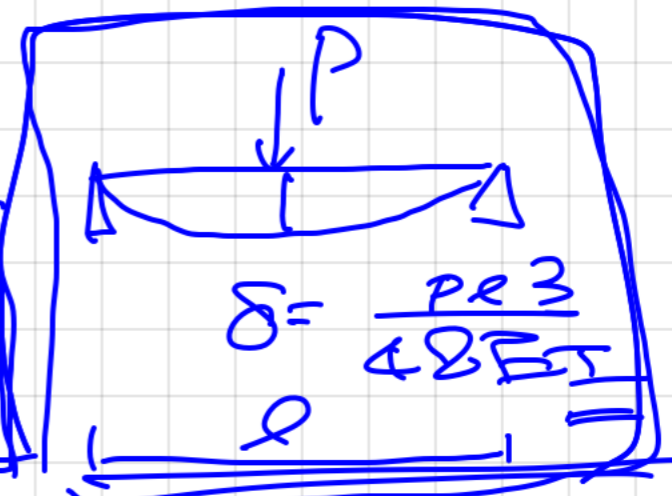
合和14NO.2

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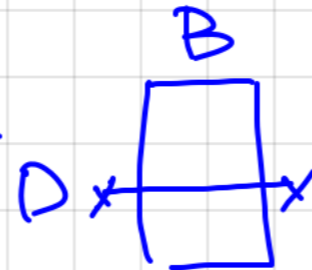
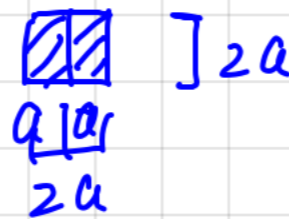
$\delta_A = \delta_B = \delta_C$  求める



$$\delta = \frac{Pl^3}{48EI}$$

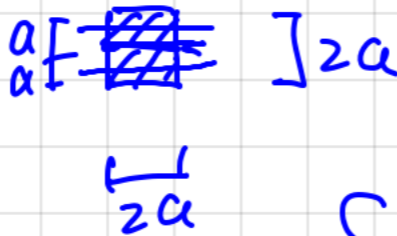
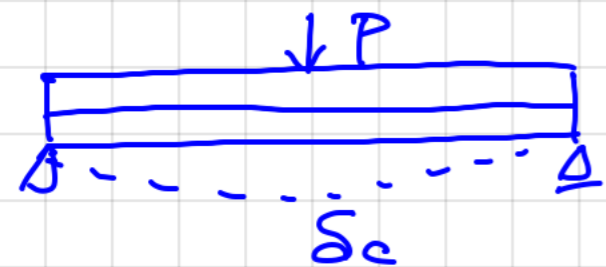


$$\delta = \frac{Pl^3}{48EI}$$



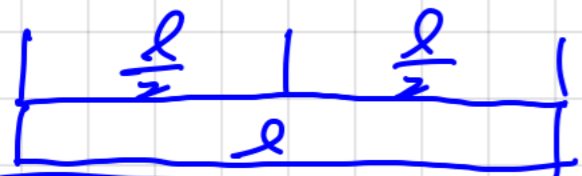
$$I_A = \frac{2a(2a)^3}{12} = \frac{16a^4}{12} = 4I_C$$

$$I_B = \frac{a(2a)^3}{12} \times 2 = \frac{16a^4}{12} = 4I_C$$



$$I_x = \frac{BD^3}{12}$$

$$I_C = \frac{2a \cdot a^3}{12} \times 2 = \frac{4a^4}{12} = I_C$$



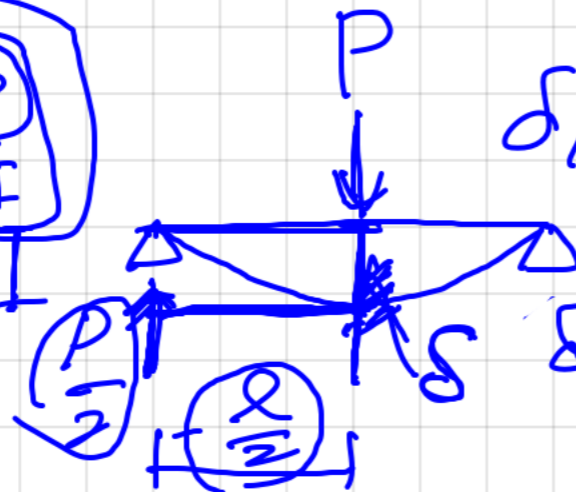
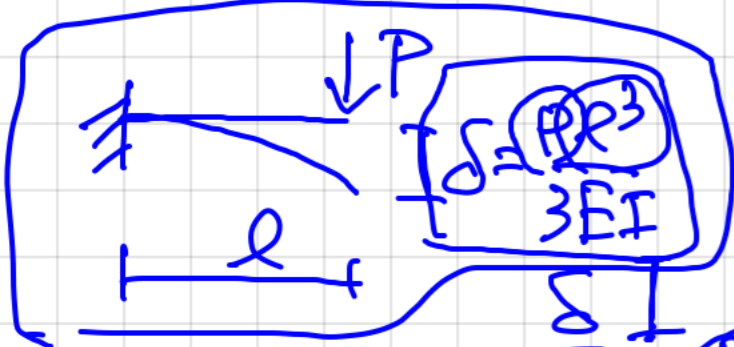
$$\delta_A = \frac{Pl^3}{48 \cdot 4I_C} \quad \delta_B = \frac{Pl^3}{48 \cdot 4I_C} \quad \delta_C = \frac{Pl^3}{48I_C}$$

$$= \frac{1}{4I_C}$$

$$= \frac{1}{4I_C}$$

$$= \frac{1}{I_C} = 1$$

$$\delta_A : \delta_B : \delta_C = \frac{1}{4} : \frac{1}{4} : 1$$



$$\delta = \frac{P(l/2)^3}{3EI} = \frac{Pl^3}{48EI} = 1 : 1 : 4$$