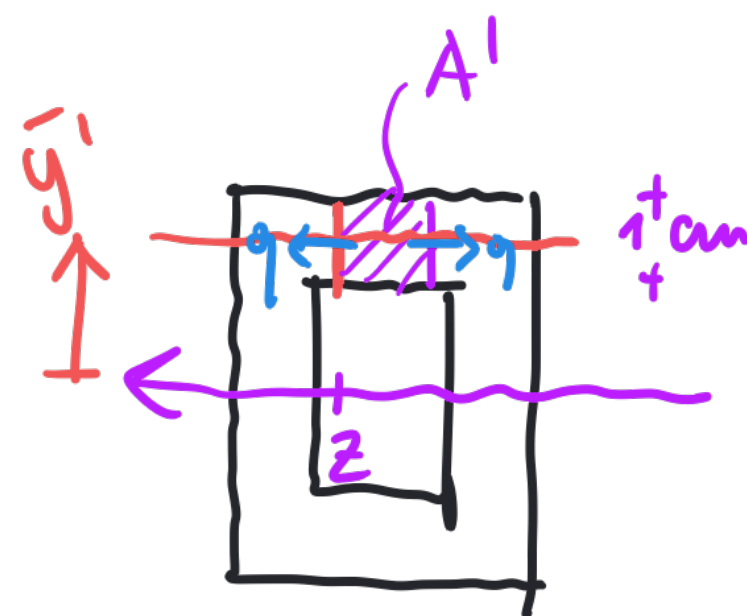


$$2q = \frac{VQ}{I}$$

$$I = \frac{1}{12}(6 \text{ cm})(8 \text{ cm})^3 - \frac{1}{12}(2 \text{ cm})(4 \text{ cm})^3$$

$$= 184 \text{ cm}^4$$

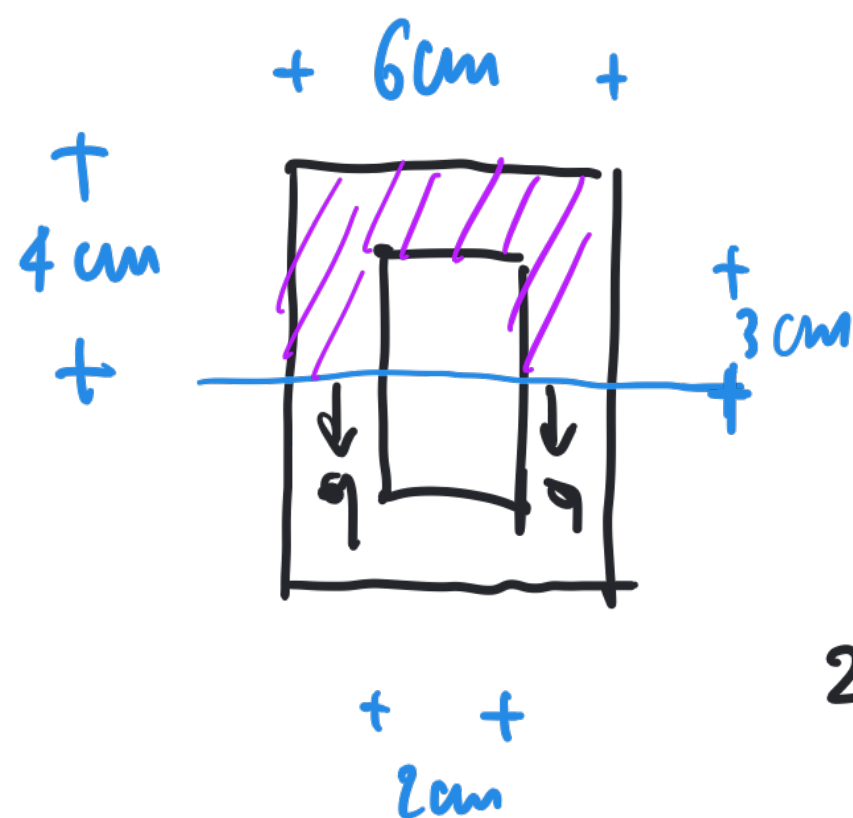
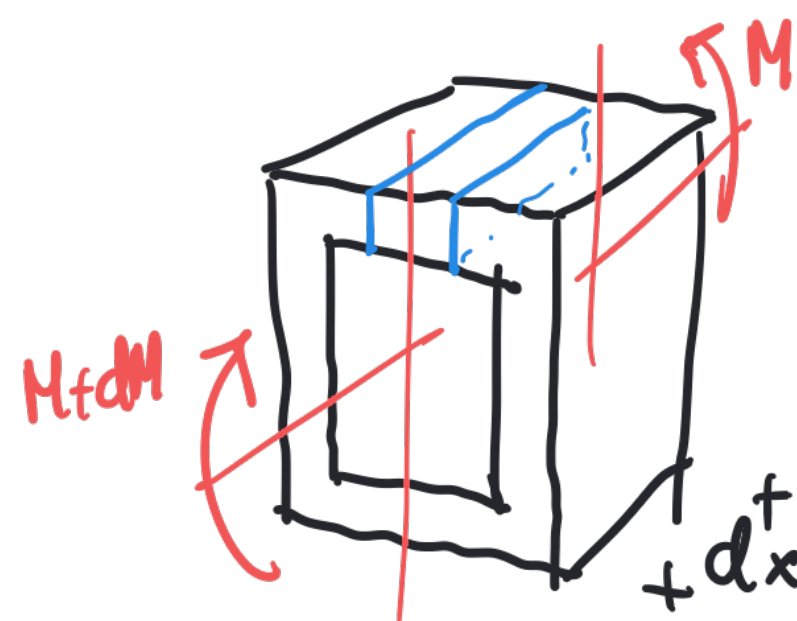
$$A' = 2 \text{ cm} \cdot 1 \text{ cm}^2 \quad \bar{y}' = 3.5 \text{ cm}$$



$$2q = \frac{10 \text{ kN}}{184 \text{ cm}^4} \cdot (2 \text{ cm}^2) 3.5 \text{ cm}$$

$$z = 2.5 \text{ cm} \Rightarrow 2q = \frac{10 \text{ kN}}{184 \text{ cm}^4} 17.5 \text{ cm}^3 = 0.951 \text{ kN/cm}$$

$$\Rightarrow q = 0.476 \text{ kN/cm}$$



$$Q = (2 \text{ cm})(4 \text{ cm})(6 \text{ cm}) - (1.5 \text{ cm})(2 \text{ cm})(3 \text{ cm})$$

$$= 39 \text{ cm}^3$$

$$2q = \frac{10 \text{ kN}}{184 \text{ cm}^4} 39 \text{ cm}^3 = 2.11 \text{ kN/cm}$$

$$\Rightarrow q = 1.06 \text{ kN/cm}$$

