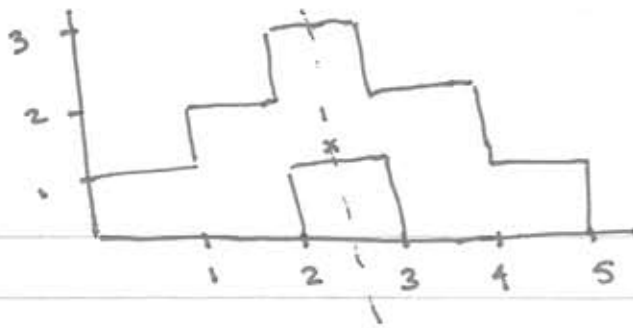


2.



$$x_{CM} = 2.5 \text{ m by symmetry}$$

$$\bar{y}_{CM} = \frac{4(.5) + 3(1.5) + 1(2.5)}{4+3+1}$$

$$= \frac{9}{8} = \underline{\underline{1.125 \text{ m}}}$$

$$M = \left(6565 \frac{\text{kg}}{\text{m}^3} \right) \left(\overset{\uparrow}{\text{thickness}} .005 \right) \left(\overset{\uparrow}{\text{area}} 8 \text{ m}^2 \right) = \underline{\underline{262.6 \text{ kg}}}$$