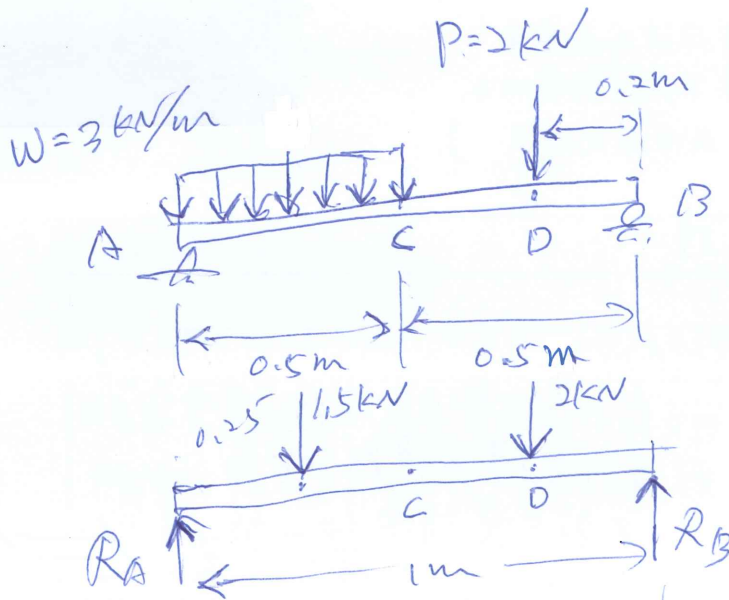
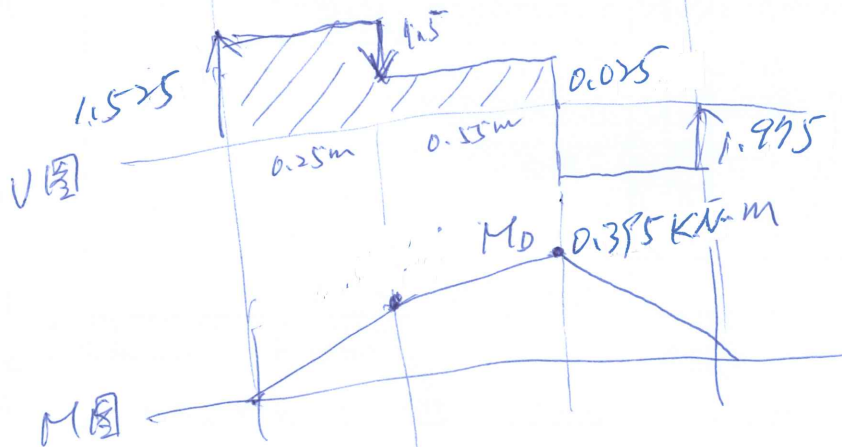


32. 有一簡支梁AB，長1,000 mm，梁之中點為C，在AC間受強度為3 kN/m之均勻分佈力，並在B端左方200 mm處（D點）施加一2 kN之集中力，則D點處之彎曲力矩為  
 (A) 0.450 kN·m (B) 0.425 kN·m (C) 0.410 kN·m (D) 0.395 kN·m



$$\begin{aligned} \sum M_A = 0, \therefore R_B &= 1.5 \times 0.25 + 2 \times 0.8 \\ &= 1.975 \text{ kN}(\uparrow) \\ \therefore R_A &= 3.5 - 1.975 = 1.525 \text{ kN}(\uparrow) \end{aligned}$$



$$\begin{aligned} M_D &= 1.525 \times 0.25 + 0.025 \times 0.55 \\ &= 0.395 \text{ kN}\cdot\text{m} \end{aligned}$$

Ans: D