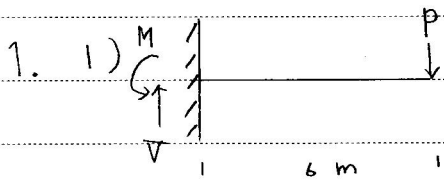


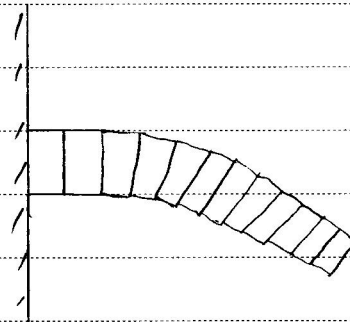
試 験 用 紙 (年 月 日)

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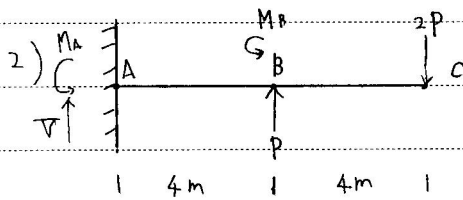
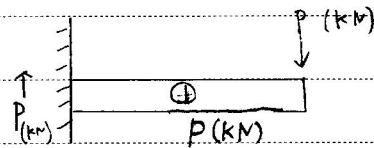
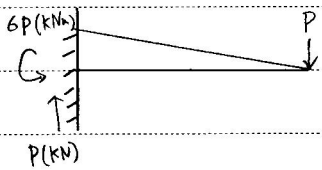
$$V = P \text{ (kN)}$$

$$M = P \times 6 = 6P \text{ (kNm)}$$



M ☒

Q ☒

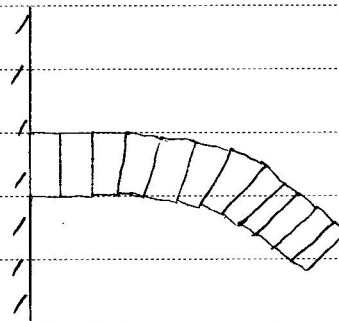


$$V + P = 2P,$$

$$V = P \text{ (kN)}$$

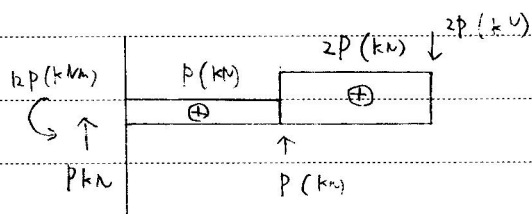
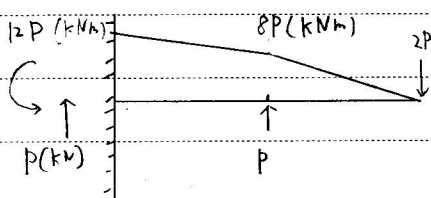
$$M_A = 2P \times 8 - P \times 4 = 12P \text{ (kNm)}$$

$$M_B = 2P \times 4 = 8P \text{ (kNm)}$$



M ☒

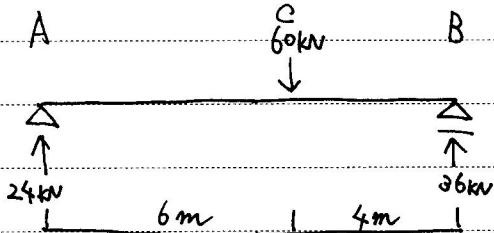
Q ☒



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2

1)



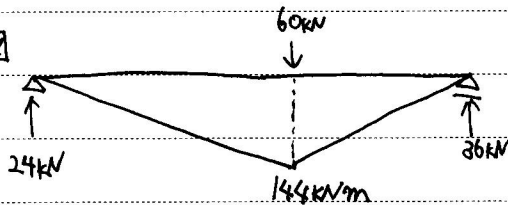
反力

$$V_a \cdot 10 - 60 \cdot 4 = 0$$

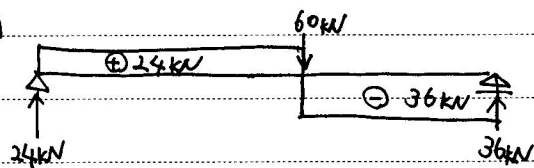
$$V_a = 24 \text{ kN}$$

$$24 - 60 + V_b = 0 \quad V_b = 36 \text{ kN}$$

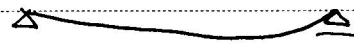
M



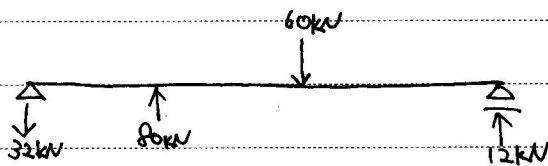
Q



変形



2)



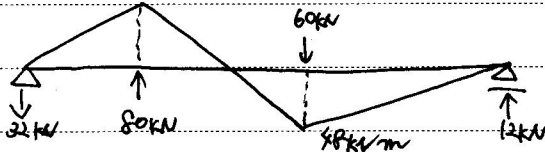
反力

$$V_a \cdot 10 + 80 \cdot 7 - 60 \cdot 4 = 0$$

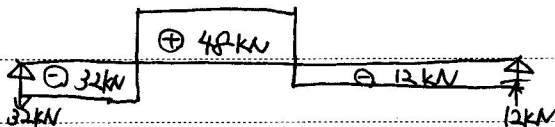
$$V_a = -32 \text{ kN}$$

$$-32 + 80 - 60 + V_b = 0 \quad V_b = 12 \text{ kN}$$

M



Q



変形

