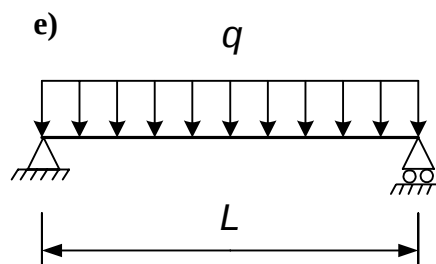
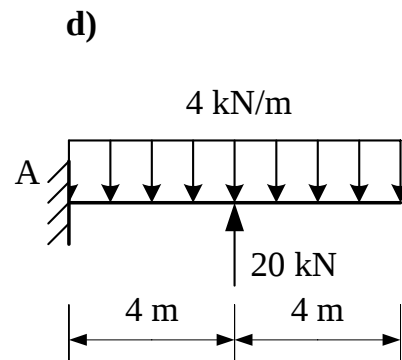
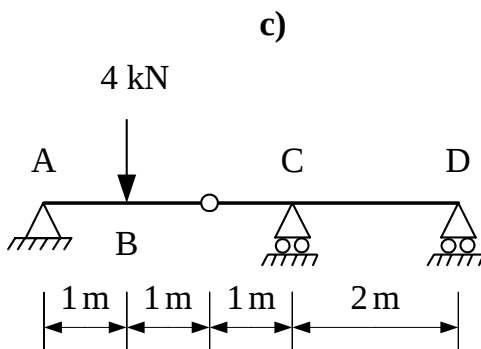
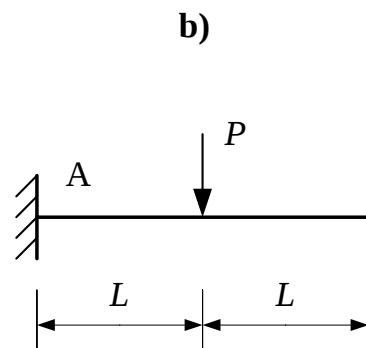
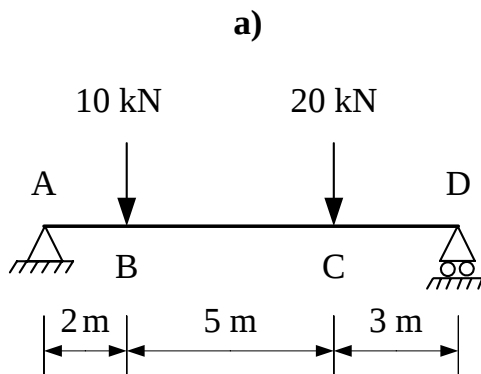


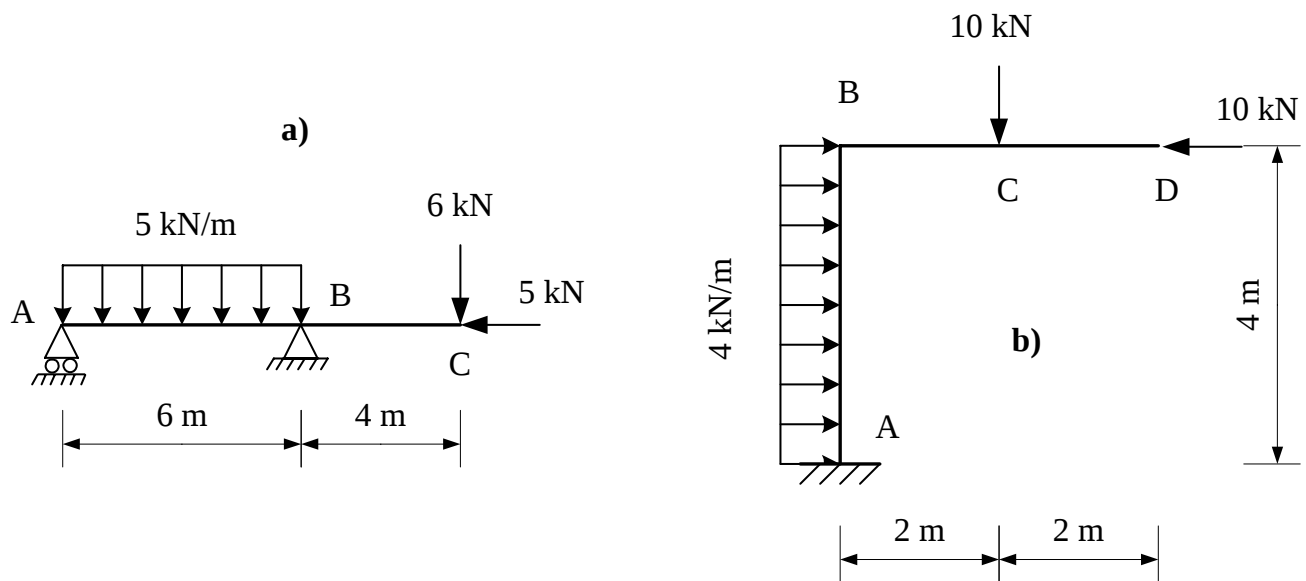
Uppgift 3 : Utlämnas 06/11. Inlämnas senast 13/11.

1 Rita moment- och tvärkraftsdiagram för nedanstående balkar.

Kontrollera diagrammen genom att kolla att sambandet $V = \frac{dM}{dx}$ uppfylls.



2 Rita moment-, tvärkrafts- och normalkraftsdiagram för nedanstående strukturer.



Svar : 1 a) $M_{\max} = 48 \text{ kNm}$ c) $M_{\max} = 2 \text{ kNm}$ $M_{\min} = -2 \text{ kNm}$

d) $V_{\max} = 16 \text{ kN}$ $V_{\min} = -4 \text{ kN}$ $M_{\min} = -48 \text{ kNm}$

e) $M_{\max} = q L^2/8$

2 a) $V_{\max} = 11 \text{ kN}$ $V_{\min} = -19 \text{ kN}$ $M_{\max} = 12.1 \text{ kNm}$

b) i AB : $M_{\max} = -7.5 \text{ kNm}$ $V_{\min} = -10 \text{ kN}$

i BD : $V_{\max} = 10 \text{ kN}$