## Today: Internal effects in beams continued

- Deformation signs continued
- Frames

Book: Book: Chapter 6.6, 7.1-7.3 + hand outs



## 2) Which force diagram corresponds to the V-line?





3) The M-diagram of the beam is given. Which of the four applied forces is the largest one? a.  $F_a$ 

b.  $F_b$ c.  $F_c$ d.  $F_d$  4) The shear force diagram of an beam element AB is given. Which M-diagram can be correct (all values in kNm)





5) The M line of a spar is given. Which shear diagram corresponds to this M-line?





6) Which shear force diagram can be correct?





7) Which moment diagram can be correct?





8) Which moment diagram can be correct?













Derive the normal-force, shear-force and bending moment diagrams for this structure.





Derive the normal-force, shear-force and bending moment diagrams for this structure.





Derive the normal-force, shear-force and bending moment diagrams for this structure due to the concentrated moment **T**.

