Today: Internal effects in beams continued

- Deformation signs continued
- Frames

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

Which N-diagram is correct?





1. a
2. b
3. c
4. d







Which force diagram corresponds to the V-diagram?



1. a
2. b
3. c
4. d



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





The M-diagram of the beam is given. Which of the four applied forces is the largest one?











3) The M-diagram of the beam is given. Which of the four applied forces is the largest one? a. F_{α}

b.
$$F_b$$

c. F_c

d. F_d

The shear force diagram of beam element AB is given. Which M-diagram can be correct (all values in kNm)



4) The shear force diagram of an beam element AB is given. Which M-diagram can be correct (all values in kNm)





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







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





Which shear force diagram can be correct?



1. a
2. b
3. c
4. d



6) Which shear force diagram can be correct?





Which moment diagram can be correct?



1.

2.

з.

4.

7) Which moment diagram can be correct?





Which moment diagram can be correct?







8) Which moment diagram can be correct?





Which M-diagram is correct?









Which axial force diagram is correct?











Draw the M-, V- and N- diagram



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**.

