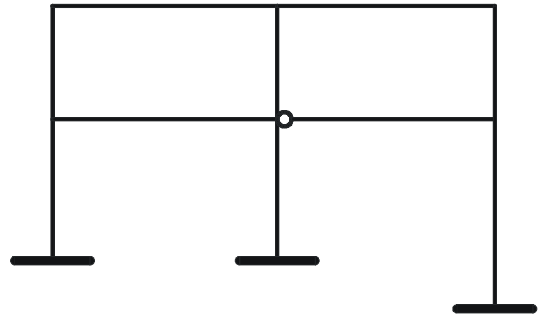


Nr.1

How many unknowns have the following system, if the stiffness method (displacement method) has to be applied?
(Written argumentation.)

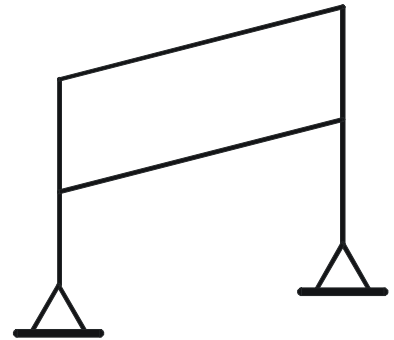


1. $n = 6$ translations & rotations 2. $n = 7$ translations & rotations 3. $n = 8$ translations & rotations

1
2
3

Nr. 2

How many unknowns have the following system, if the stiffness method (displacement method) has to be applied?
(Written argumentation.)



1. $n = 9$ unknowns

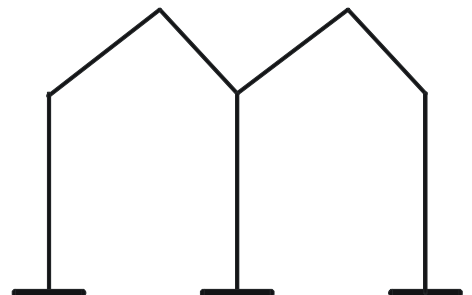
2. $n = 6$ unknowns

3. $n = 8$ unknowns

1
2
3

Nr. 3

How many unknowns have the following system, if the stiffness method (displacement method) has to be applied?
(Written argumentation.)



1. $n = 6$ unknowns

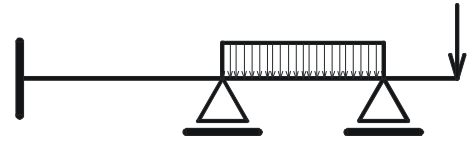
2. $n = 7$ unknowns

3. $n = 8$ unknowns

1
2
3

Nr. 4

Which is the static indeterminacy degree of the shown continuous beam? (Written argumentation.)



1. $n = 2$

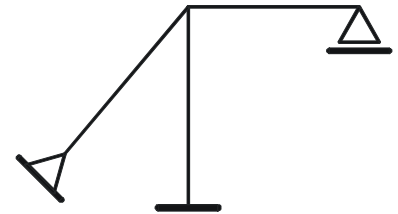
2. $n = 3$

3. $n =$ is a Gerber beam
(statically determined)

- 1
2
3

Nr. 5

Which is the static indeterminacy degree of the shown system? (Written argumentation.)



1. $n = 4$

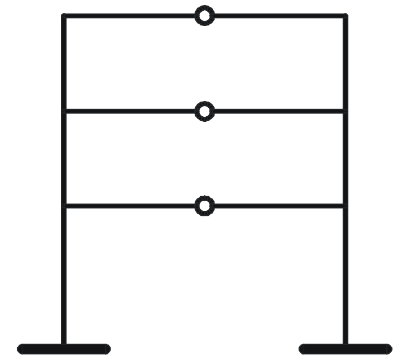
2. $n = 3$

3. $n =$ is a statically
determined system

- 1
2
3

Nr. 6

Which is the static indeterminacy degree of the following frame? (Written argumentation.)



1. $n = 9$

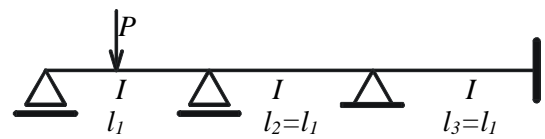
2. $n = 4$

3. $n = 6$

- 1
2
3

Nr. 7

Which is the correct bending moment diagram?



1.



2.



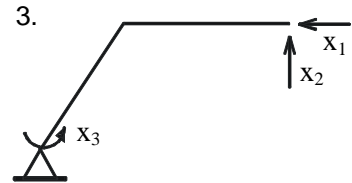
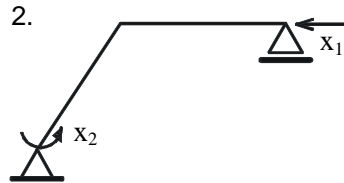
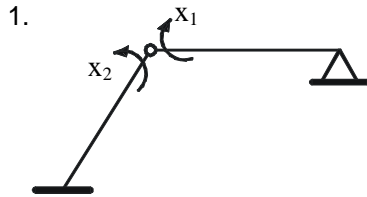
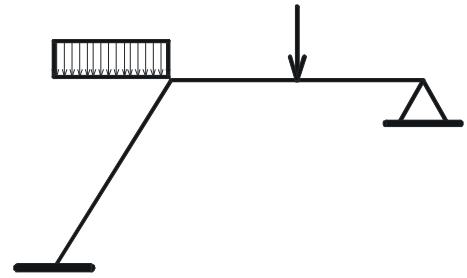
3.



- 1
2
3

Nr. 8

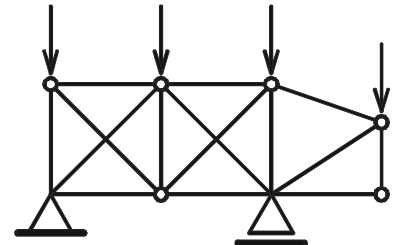
Which is the correct primary determinate system?



- 1
 2
 3

Nr. 9

Let specify what kind of truss system is represented in the following figure:



1. a statically determined truss

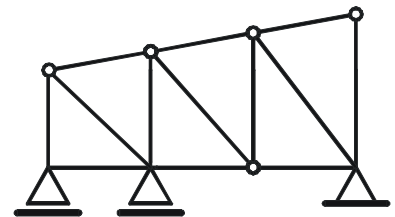
2. an hyperstatic truss

3. a mechanism

- 1
 2
 3

Nr. 10

Let specify what kind of truss system is represented in the following figure:



1. a statically determined truss

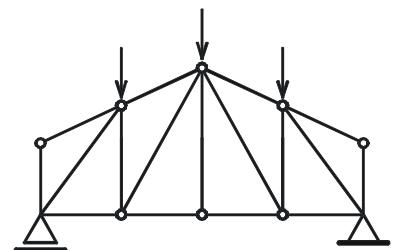
2. an hyperstatic truss

3. a mechanism

- 1
 2
 3

Nr. 11

Let specify what kind of truss system is represented in the following figure:



1. a statically determined truss

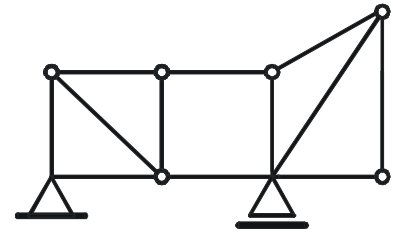
2. an hyperstatic truss

3. a mechanism

- 1
 2
 3

Nr. 12

Let specify what kind of truss system is represented in the following figure:

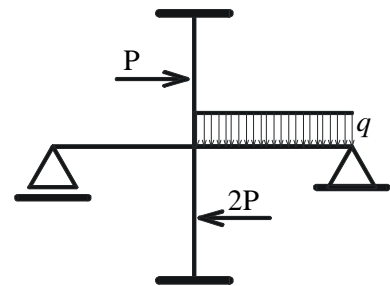


1. a statically determined truss 2. an hyperstatic truss 3. a mechanism

1
 2
 3

Nr. 13

Let specify which primary system is much easier to be used for the following system. Write the system of equations for the chosen method.

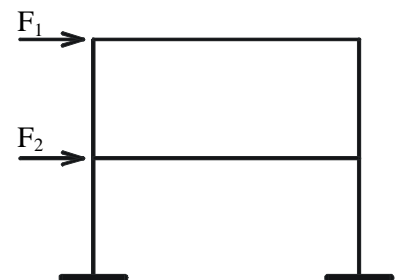


1. Force method 2. Stiffness method
 (displacement method) 3. Both methods are suitable.

1
 2
 3

Nr. 14

Let specify which primary system is much easier to be used for the following system. Write the system of equations for the chosen method.



1. Force method 2. Stiffness method
 (displacement method) 3. Both methods are suitable.

1
 2
 3