

F9

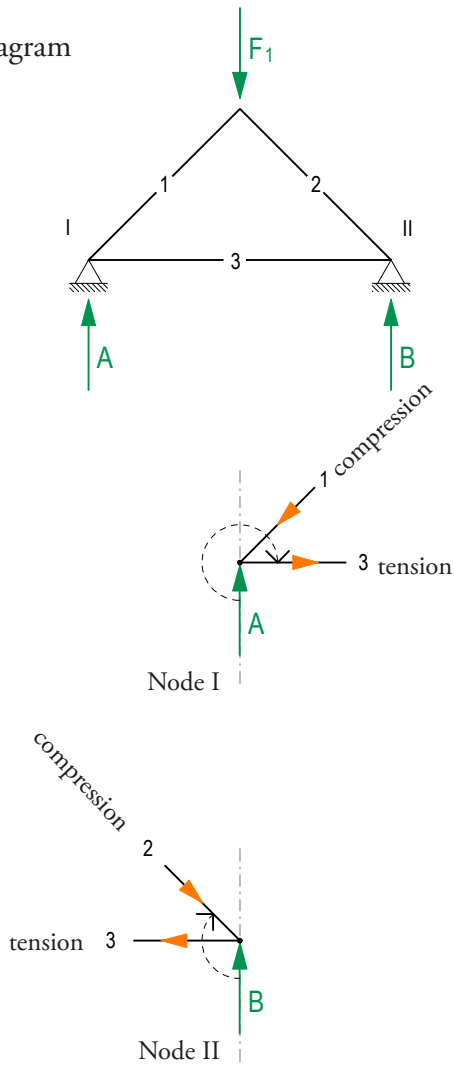
In order to determine the type of stress acting in the elements of the structure, the local equilibrium of a node is considered in the predefined reading order and the respective polygon is drawn. The easiest and fastest way of doing this is to draw it while constructing the force diagram.

If the forces are applied to the node, the following applies:

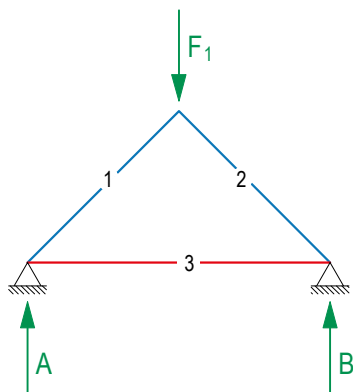
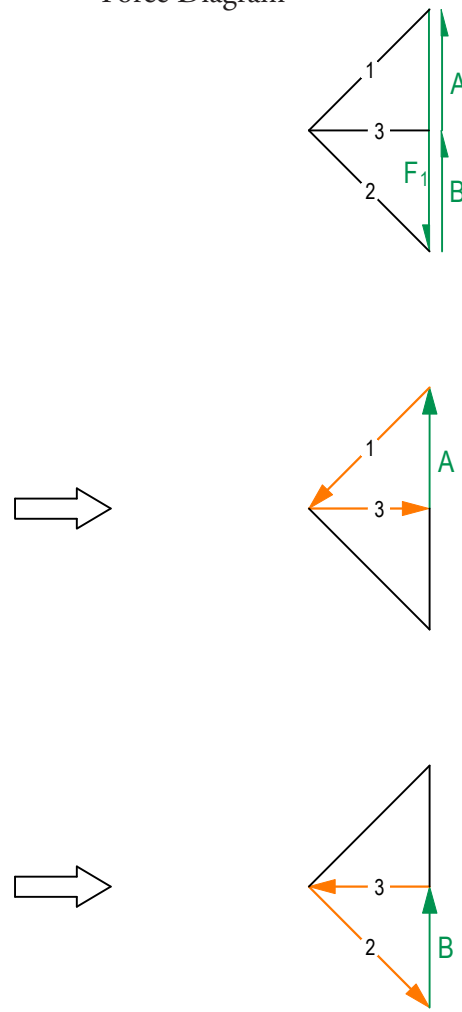
In case the force is acting in direction away from the node, it is a tension force.

In case the force is acting in direction towards the node, it is a compression force.

Form Diagram



Force Diagram



The result is always shown in form diagram. Tension elements are indicated with red and compression elements with blue colour.