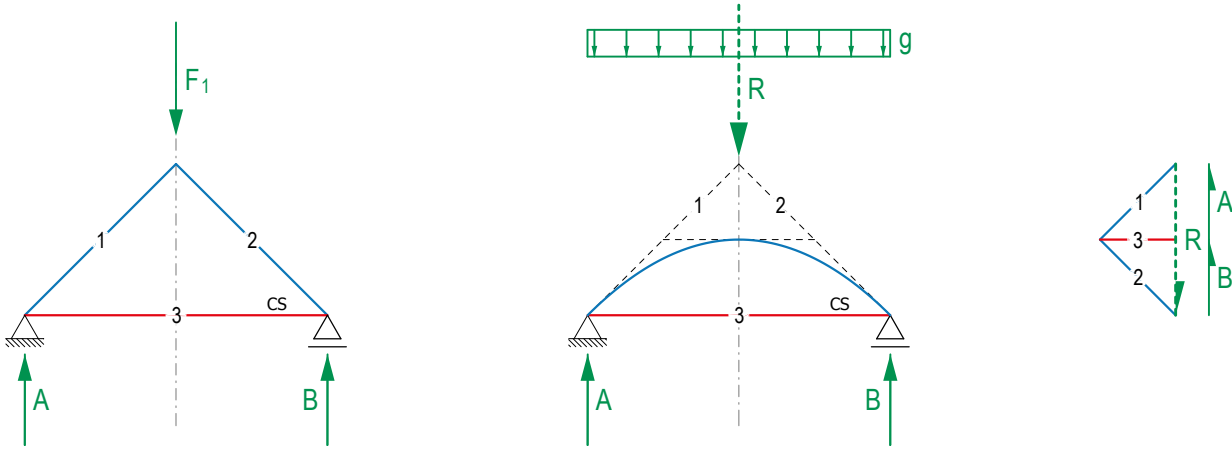


5.3

Comparison: Span and Cantilever

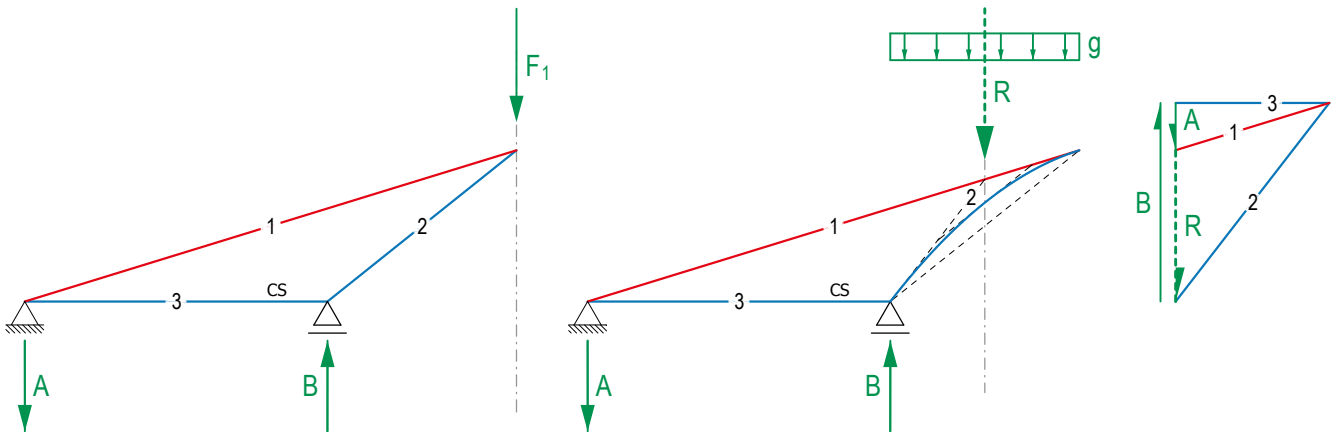
Span

If the resultant of all acting forces is located between two supports, this is a so-called *span*. Both reaction forces act in opposite direction to the applied forces.



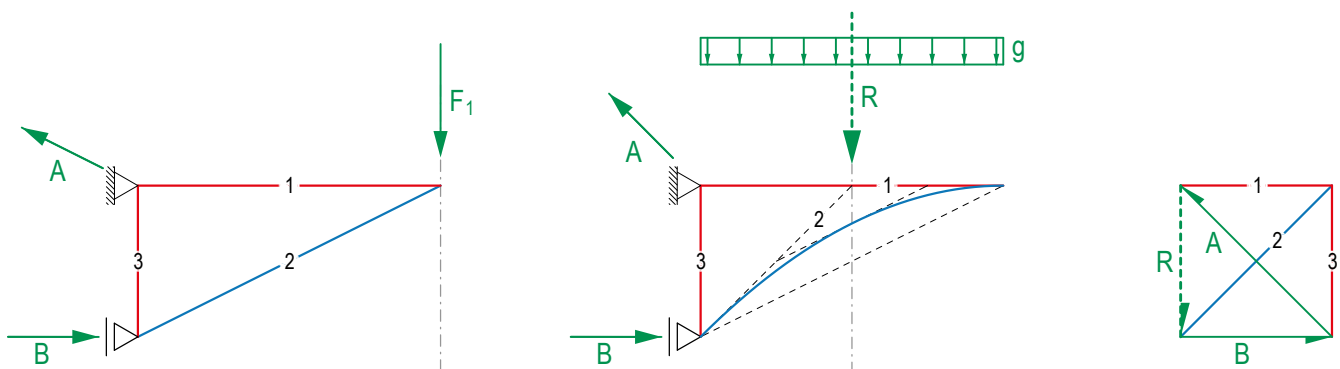
Cantilever

If the resultant of all acting forces is outside the supports, this is a *cantilever*. The reaction force A in this example is a tensile force, because otherwise the whole system would topple over (see 1.4 Stability).



Cantilever: Console

A special case of the cantilever is the console. Here, the supports are located vertically one above the other. While a horizontal arrangement of the supports also allows combinations between spans and cantilevers, this is a full cantilever only.



form diagrams 1:100

force diagrams 1cm $\hat{=}$ 10kN