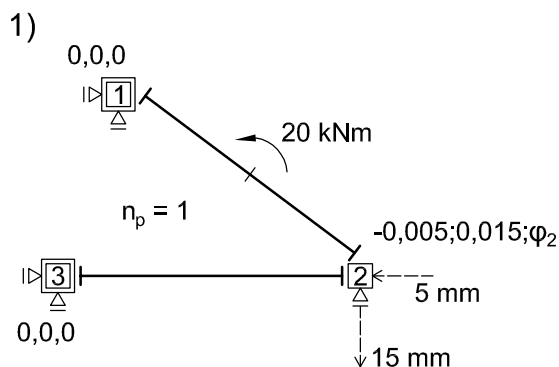
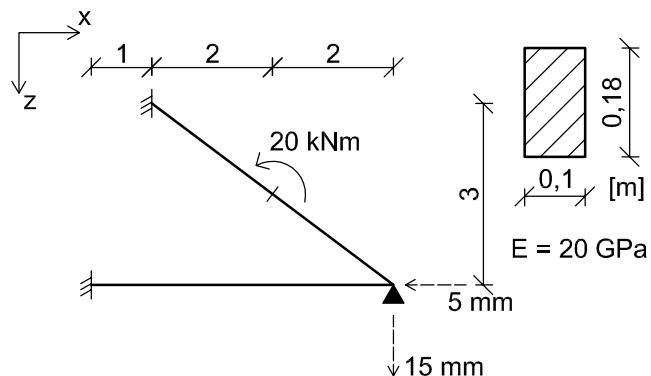


Dorešte vsechny nezbytné kroky postupu a vykreslete průběhy vnitřních sil na konstrukci.



2)

$$\{r\} = \{\varphi_2\}$$

$$\{S\} = \{0\}$$

3)

$$[K_{12}] = 10^6 \begin{bmatrix} 46,11 & 34,52 & 0,14 & -46,11 & -34,52 & 0,14 \\ 34,52 & 25,98 & -0,1866 & -34,52 & -25,98 & -0,1866 \\ 0,14 & -0,1866 & 0,7776 & -0,14 & 0,1866 & 0,3888 \\ -46,11 & -34,52 & -0,14 & 46,11 & 34,52 & -0,14 \\ -34,52 & -25,98 & 0,1866 & 34,52 & 25,98 & 0,1866 \\ 0,14 & -0,1866 & 0,3888 & -0,14 & 0,1866 & 0,7776 \end{bmatrix}$$

$$\{\bar{R}_{12}^*\} = \begin{bmatrix} 0 \\ -6000 \\ 5000 \\ 0 \\ 6000 \\ 5000 \end{bmatrix} \quad \{\bar{R}_{12}\} = \begin{bmatrix} 3600 \\ -4800 \\ 5000 \\ -3600 \\ 4800 \\ 5000 \end{bmatrix}$$

$$[K_{32}] = 10^6 \begin{bmatrix} 72 & 0 & 0 & -72 & 0 & 0 \\ 0 & 0,09331 & -0,2333 & 0 & -0,09331 & -0,2333 \\ 0 & -0,2333 & 0,7776 & 0 & 0,2333 & 0,3888 \\ -72 & 0 & 0 & 72 & 0 & 0 \\ 0 & -0,09331 & 0,2333 & 0 & 0,09331 & 0,2333 \\ 0 & -0,2333 & 0,3888 & 0 & 0,2333 & 0,7776 \end{bmatrix}$$

$$\{\bar{R}_{32}^*\} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix} \quad \{\bar{R}_{32}\} = \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

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$$\{\tilde{R}_{12}\} = \dots = \begin{bmatrix} -287160 \\ -217120 \\ 3500 \\ 287160 \\ 217120 \\ 3500 \end{bmatrix}$$

$$\{\tilde{R}_{32}\} =$$

4-7) ...

$$\{\hat{R}_{12}\} = \begin{bmatrix} -1080 \\ 1440 \\ -3000 \\ 1080 \\ -1440 \\ -6000 \end{bmatrix}$$

$$\{\hat{R}_{32}\} = \begin{bmatrix} 0 \\ 1800 \\ -3000 \\ 0 \\ -1800 \\ -6000 \end{bmatrix}$$

8)

$$\{R_{12}\} = \dots = \begin{bmatrix} -284640 \\ -220480 \\ 5500 \\ 284640 \\ 220480 \\ 2500 \end{bmatrix}$$