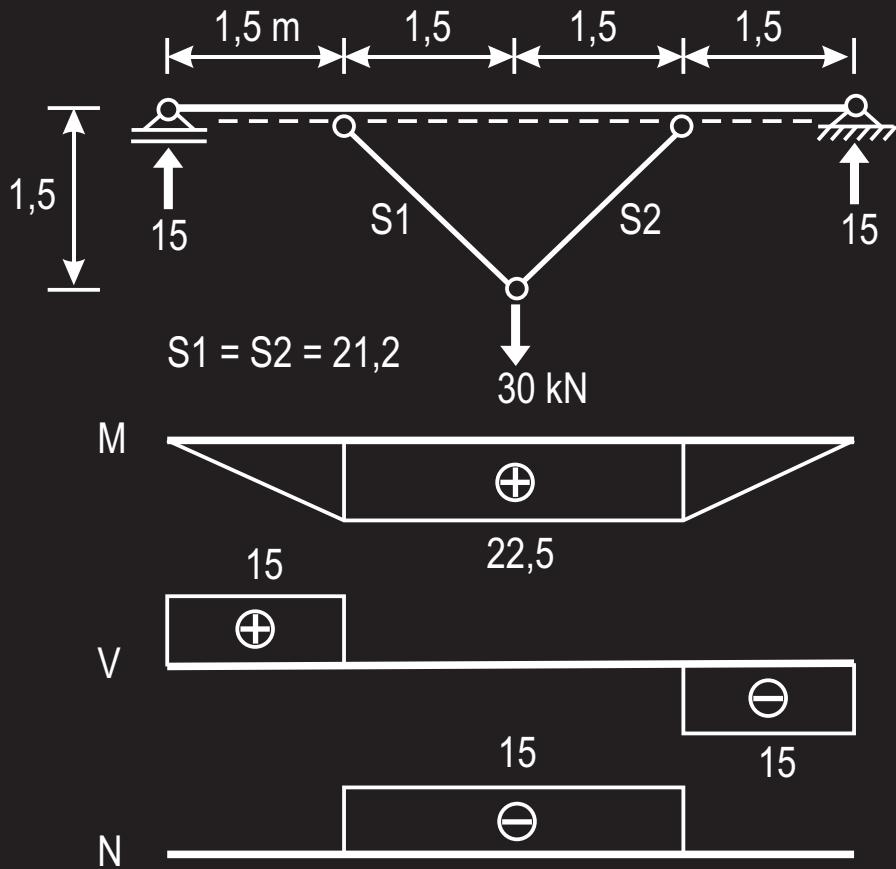
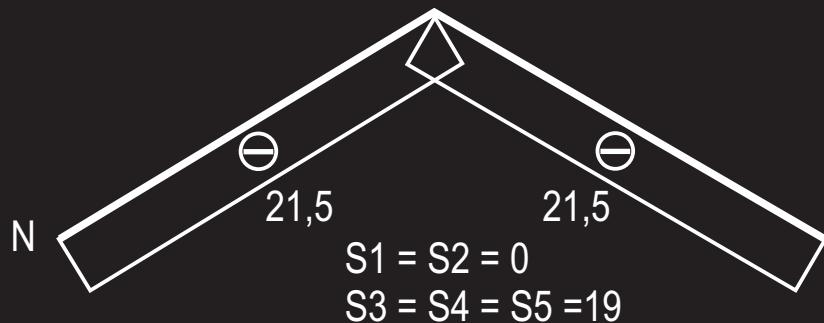
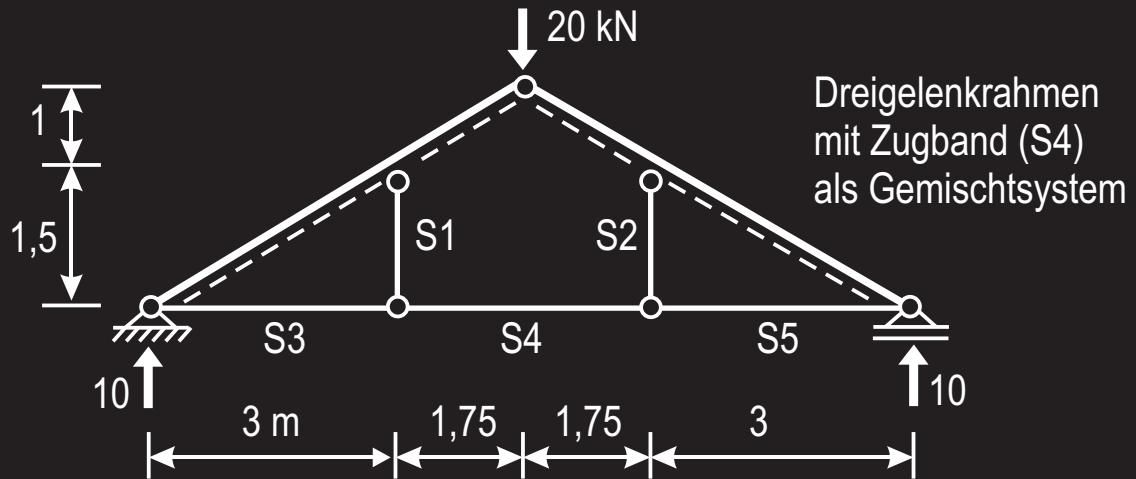


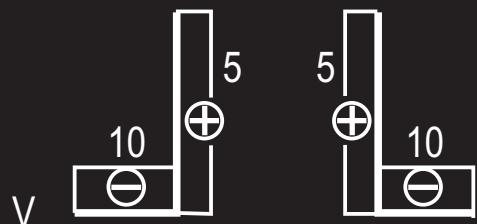
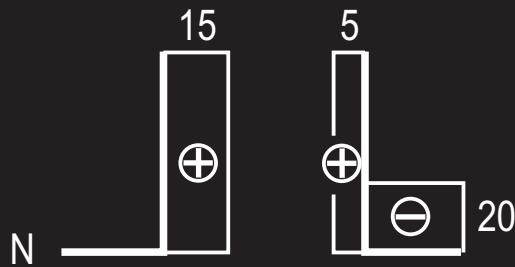
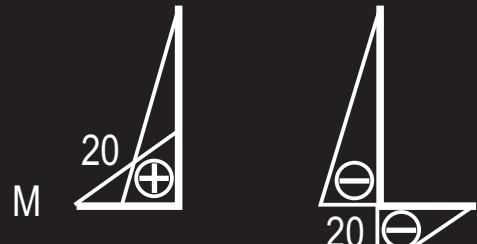
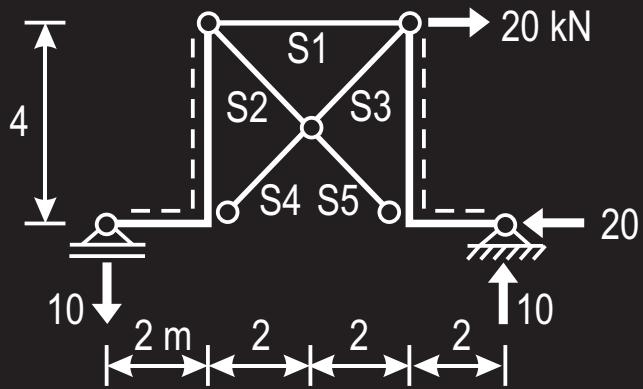
Diethard Thieme
Skripte zur Baumechanik

Übungen
mit
Lösungen

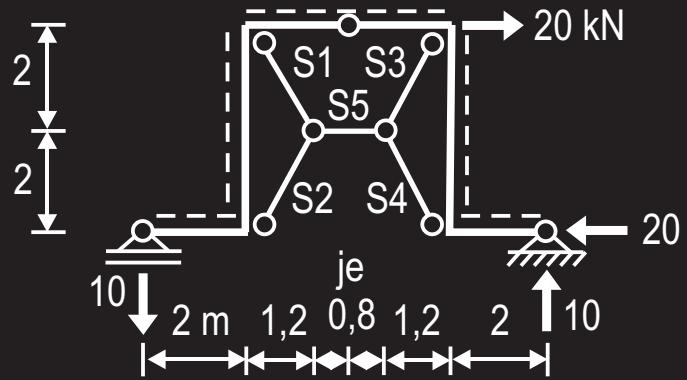
BM 44



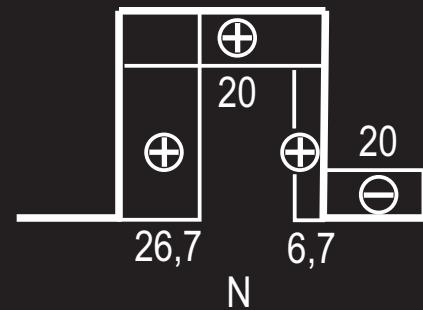
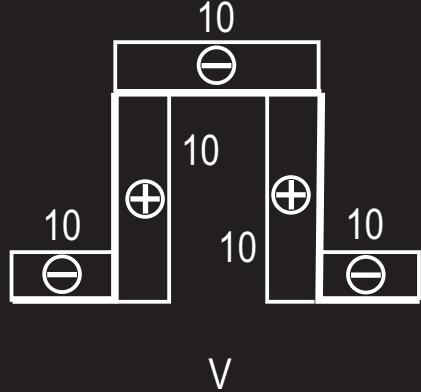
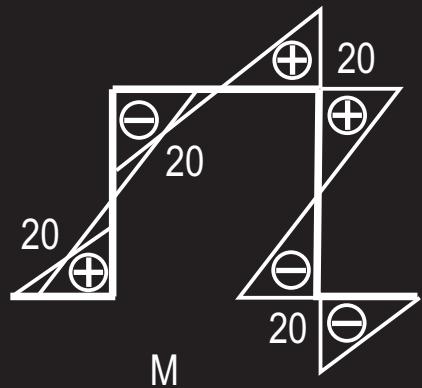


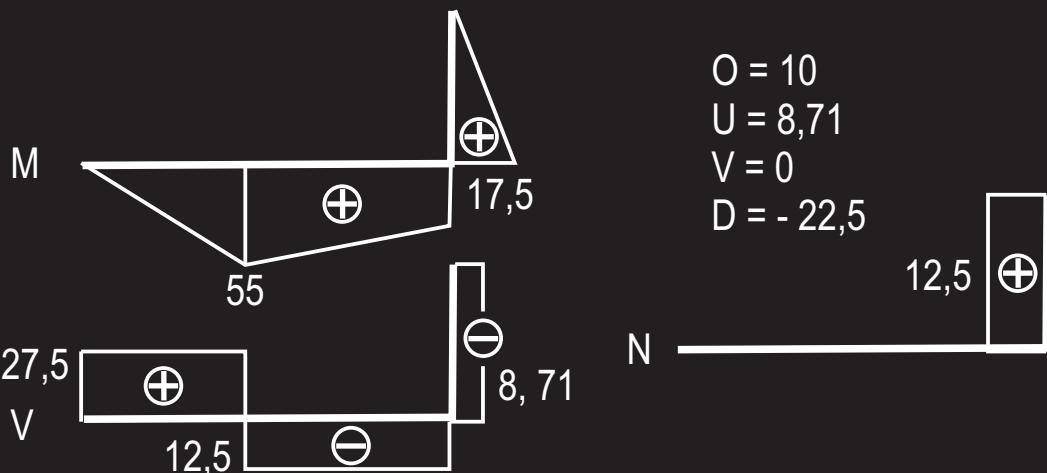
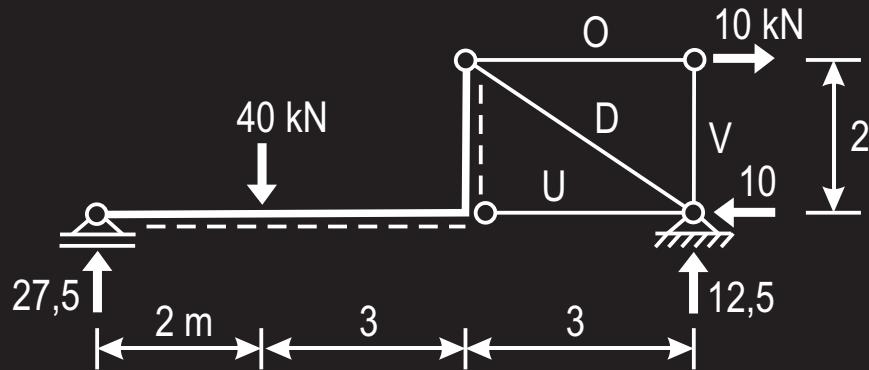


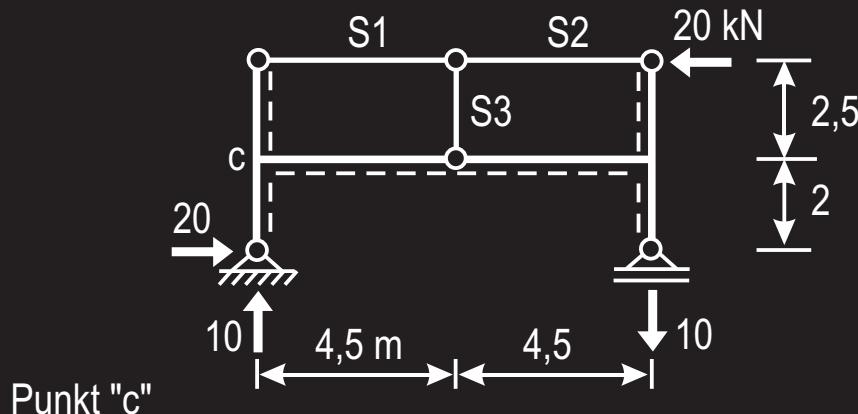
$$\begin{aligned}
 S1 &= 20 \\
 S2 &= -21,2 \\
 S3 &= -7,07 \\
 S4 &= -7,07 \\
 S5 &= -21,2
 \end{aligned}$$



$$\begin{aligned}
 S1 &= -19,4 \\
 S2 &= -19,4 \\
 S3 &= -19,4 \\
 S4 &= -19,4 \\
 S5 &= 20
 \end{aligned}$$

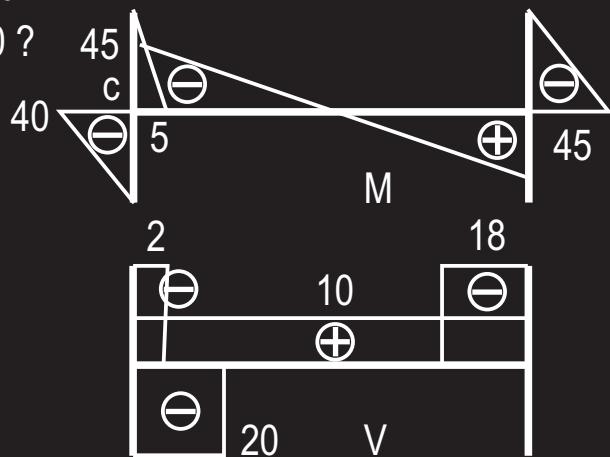




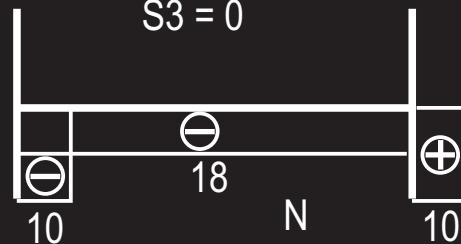


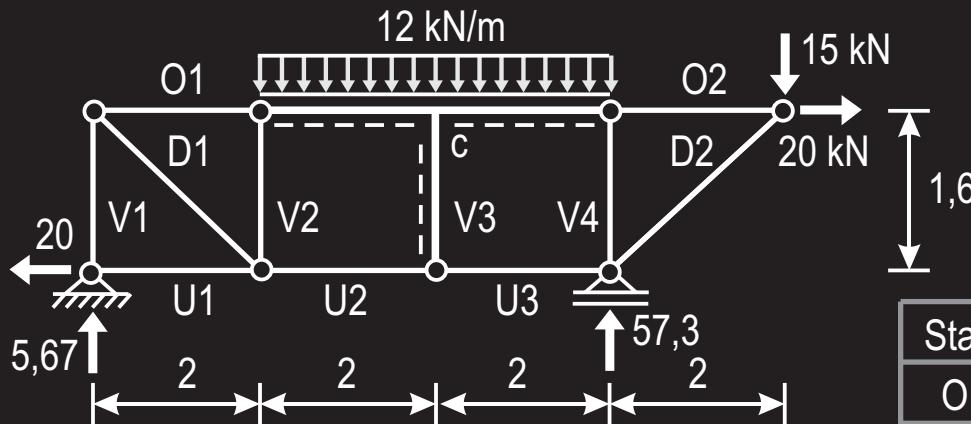
Punkt "c"

$$M = 0 ?$$

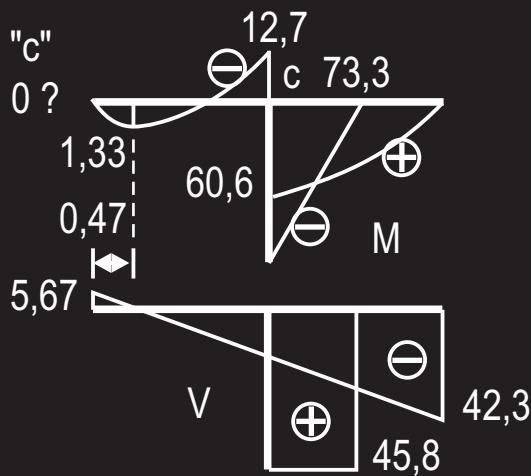


$$\begin{aligned} S1 &= -2 \\ S2 &= -2 \\ S3 &= 0 \end{aligned}$$

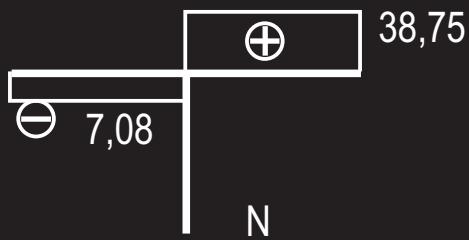


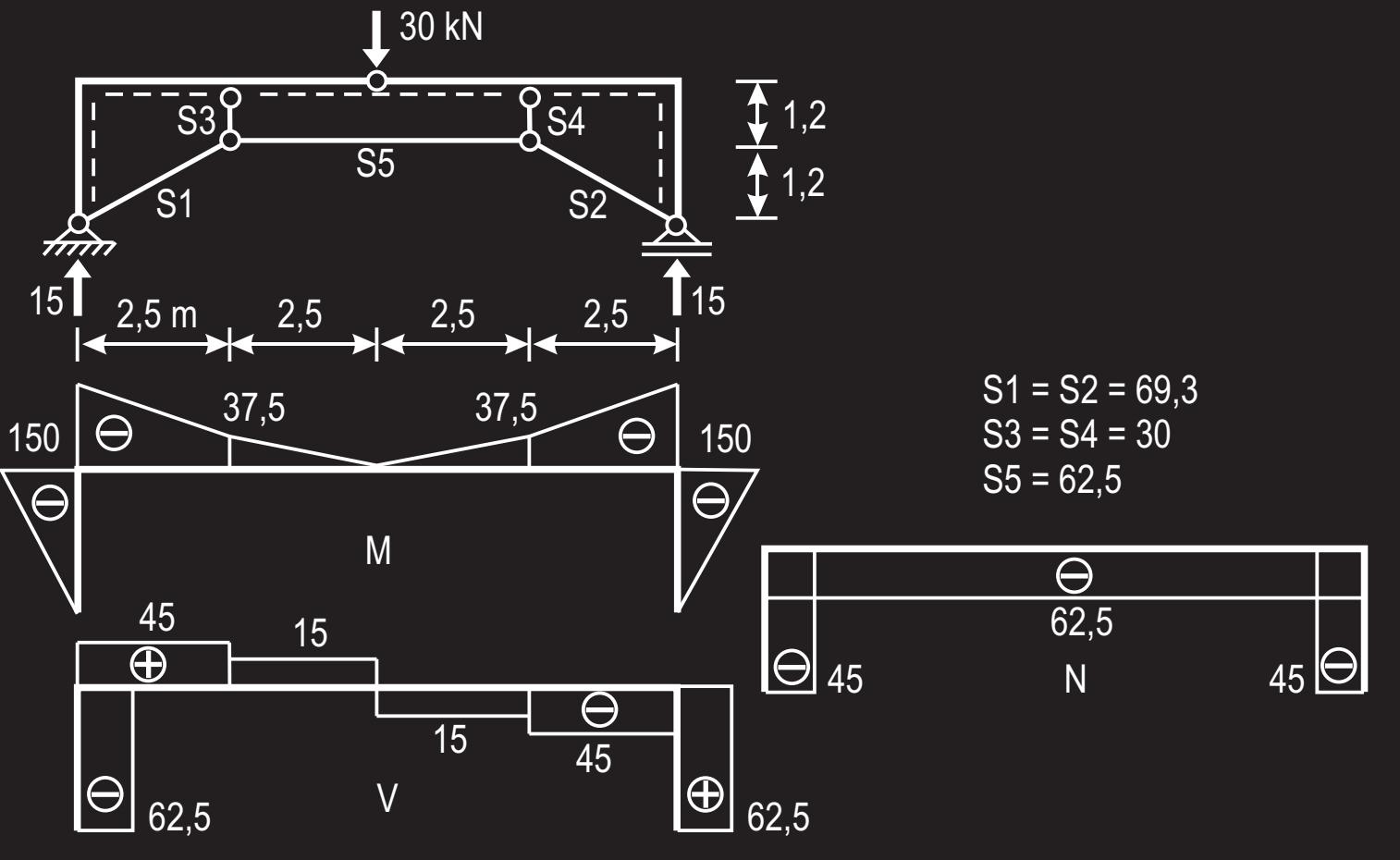


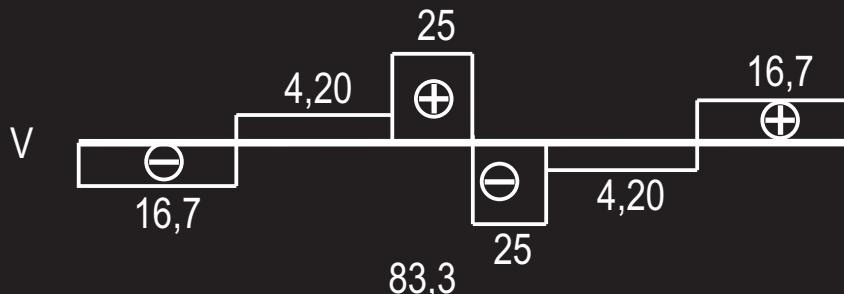
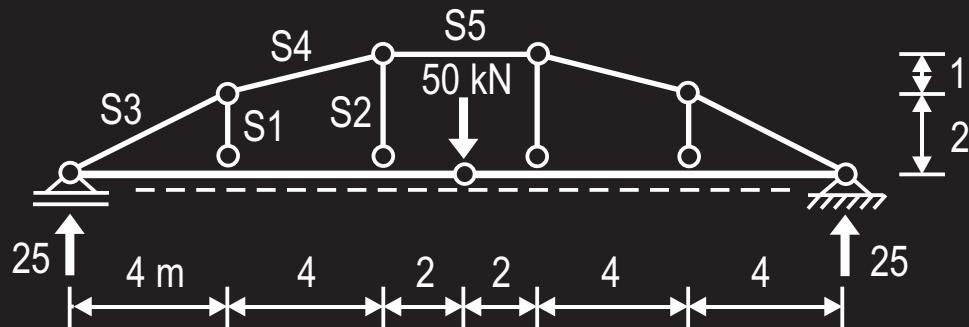
Punkt "c"
 $M = 0$?



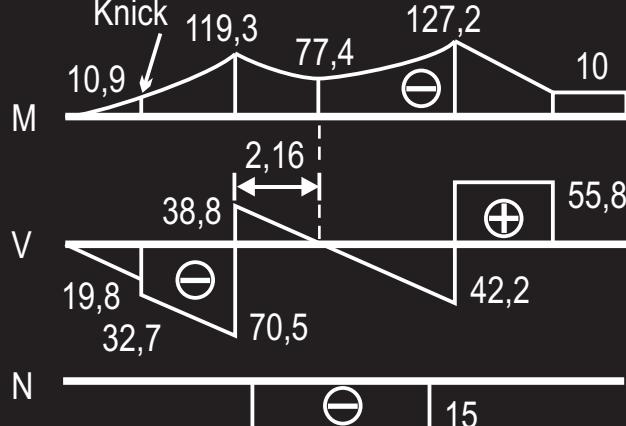
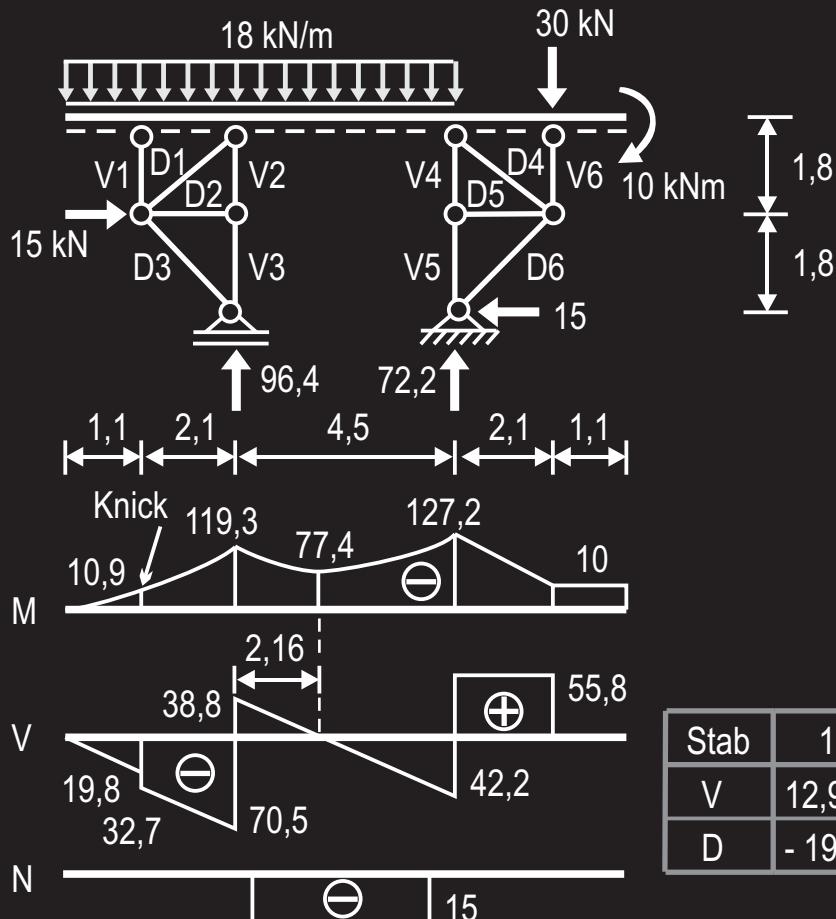
Stab	1	2	3
O	- 7,08	38,75	
U	20	27,08	- 18,75
V	- 5,67	- 5,67	- 42,3
D	9,07	- 24	



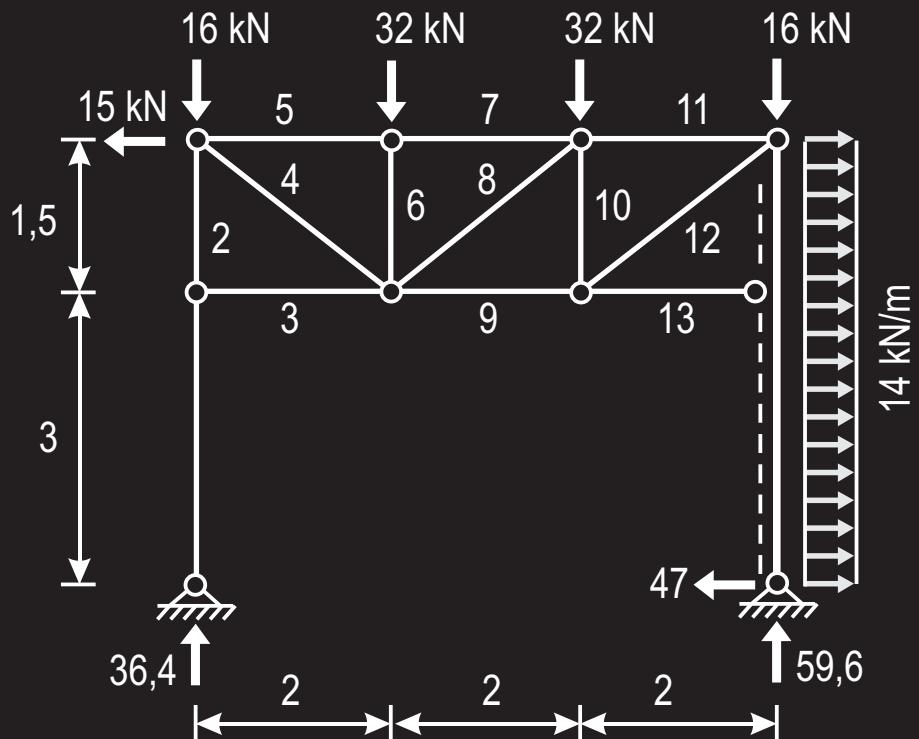




$$\begin{aligned}
 S_1 &= S_2 = 20,8 \\
 S_3 &= -93,2 \\
 S_4 &= -85,9 \\
 S_5 &= -83,3
 \end{aligned}$$



Stab	1	2	3	4	5	6
V	12,9	- 96,4	- 96,4	- 85,1	- 85,1	25,8
D	- 19,8	0	0	- 19,8	0	19,8

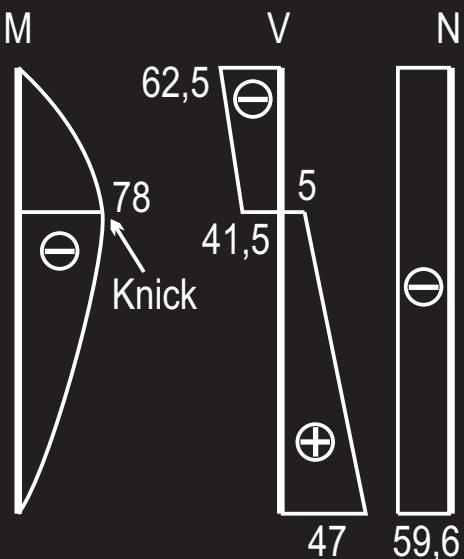


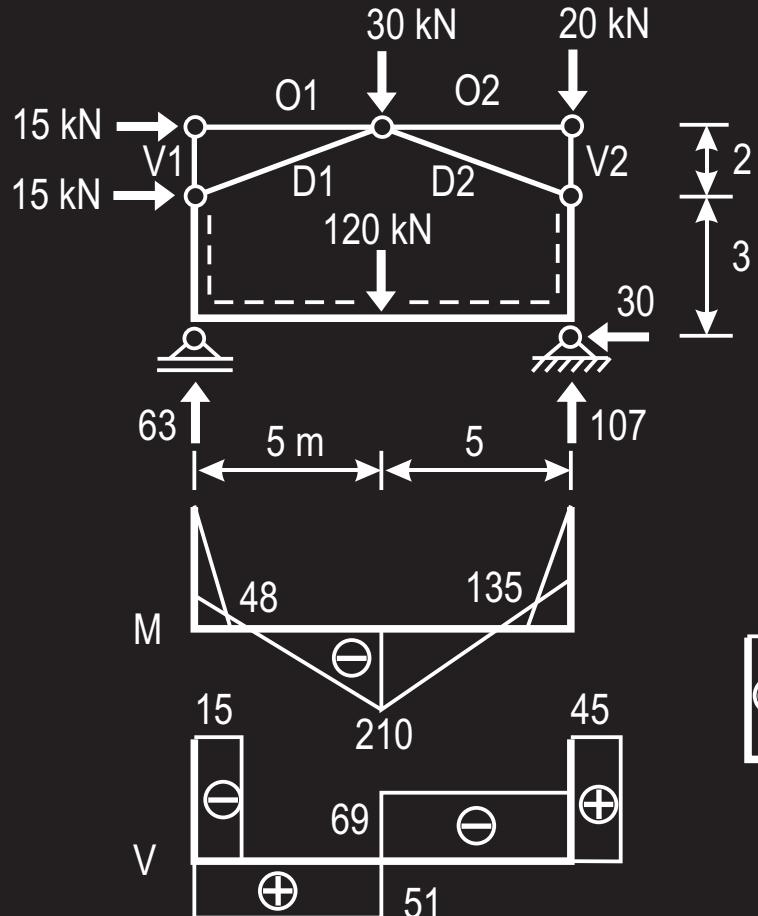
$$\begin{aligned} S_1 &= -36,4 \\ S_2 &= -36,4 \\ S_3 &= 0 \end{aligned}$$

$$\begin{aligned} S_4 &= 33,9 \\ S_5 &= -11,2 \\ S_6 &= -32 \end{aligned}$$

$$\begin{aligned} S_7 &= -11,2 \\ S_8 &= 19,4 \\ S_9 &= 11,7 \end{aligned}$$

$$\begin{aligned} S_{10} &= -43,6 \\ S_{11} &= 4,33 \\ S_{12} &= 72,7 \end{aligned}$$





Auf dem geknickten
Träger sitzt ein
Dreigelenkrahmen aus
zwei Fachwerkscheiben

$$O_1 = -15$$

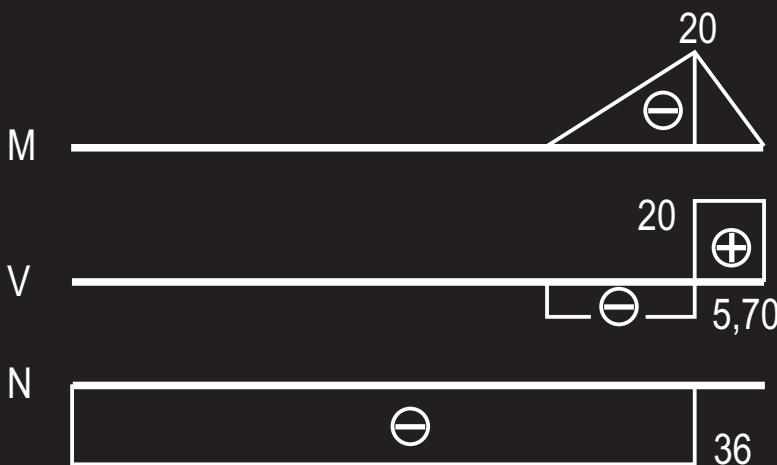
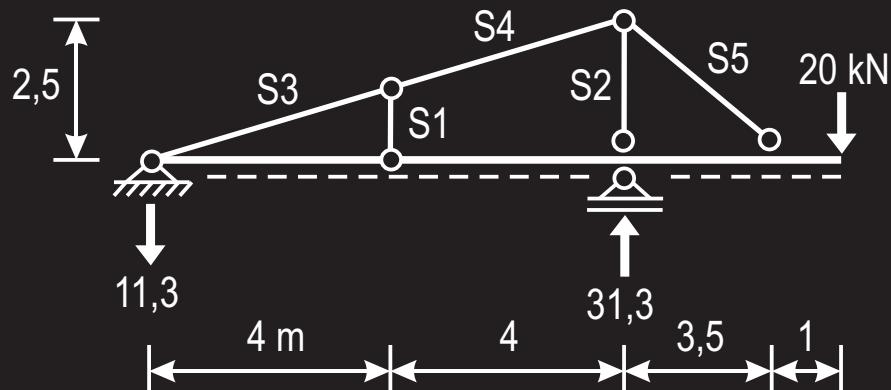
$$O_2 = 0$$

$$V_1 = 0$$

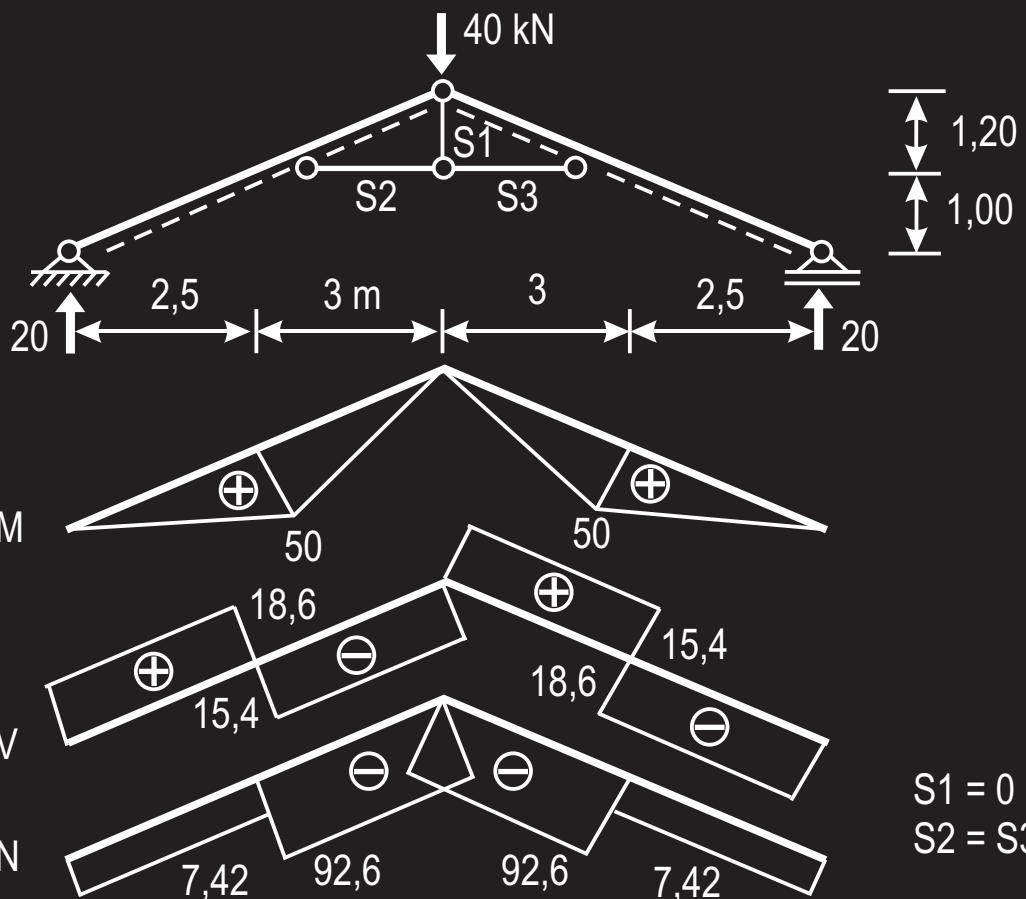
$$V_2 = -20$$

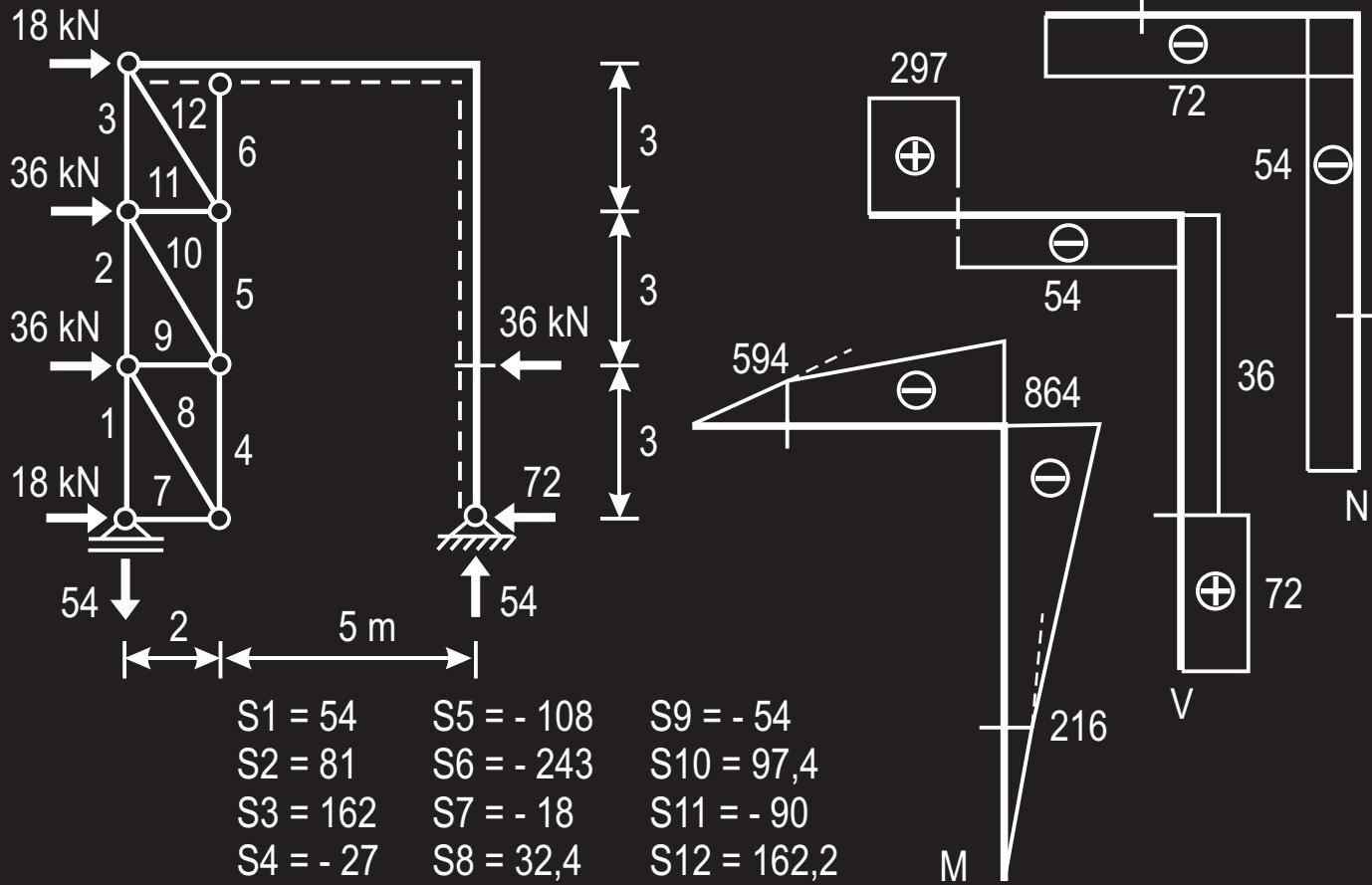
$$D_1 = -32,3$$

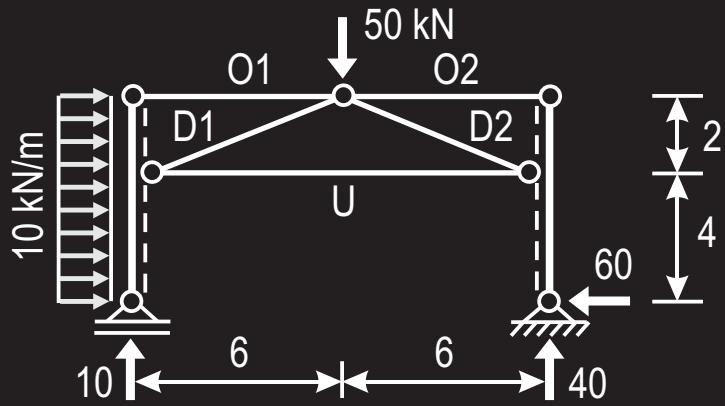
$$D_2 = -48,5$$



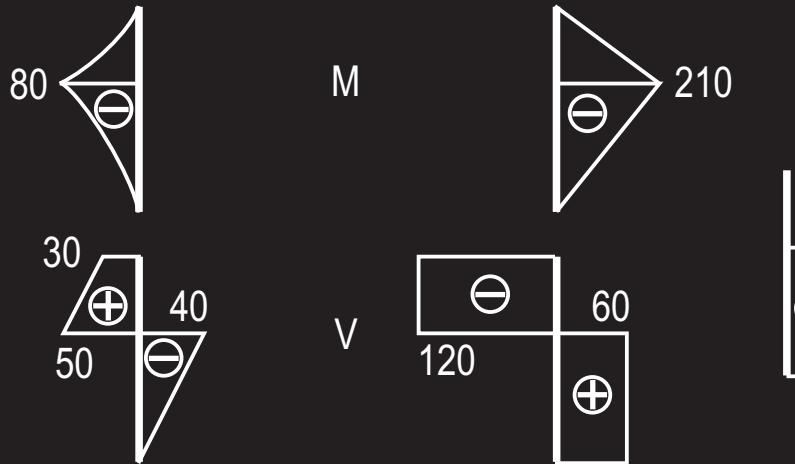
$$\begin{aligned}
 S1 &= 0 \\
 S2 &= -37 \\
 S3 = S4 &= 37,8 \\
 S5 &= 44,2
 \end{aligned}$$

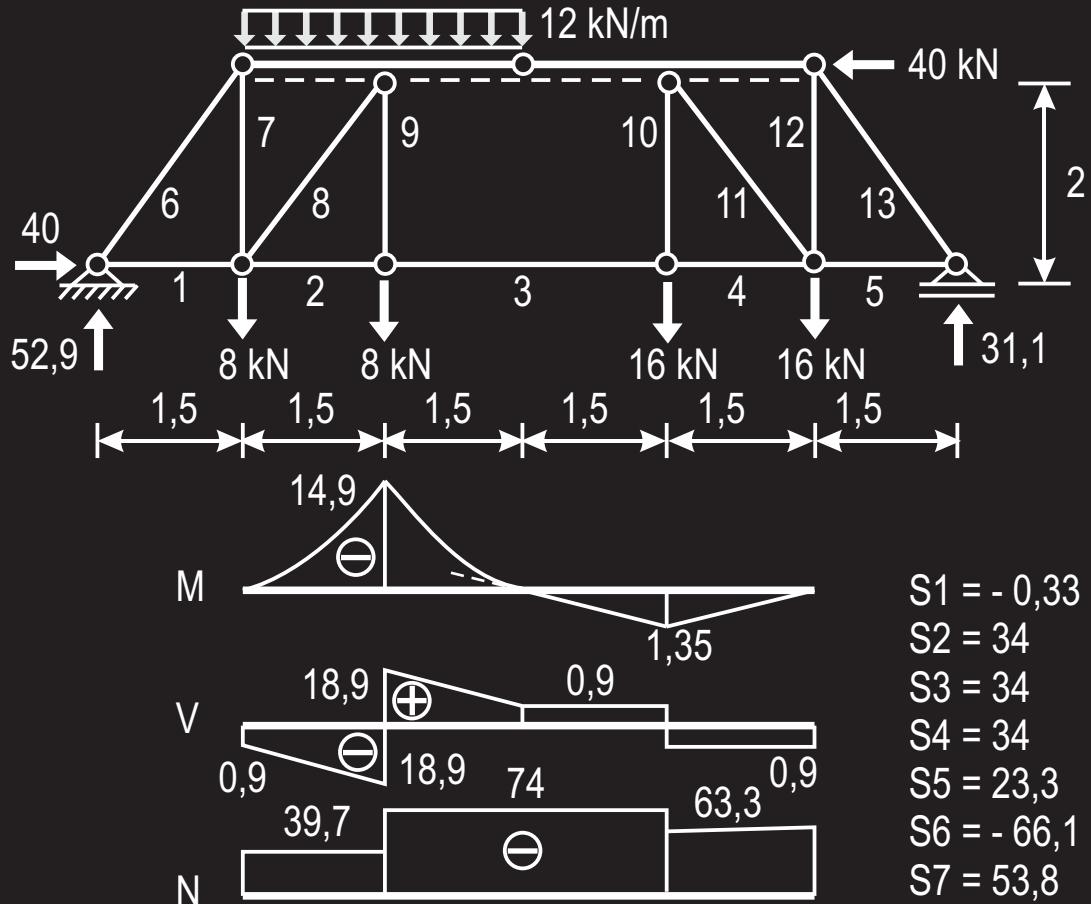


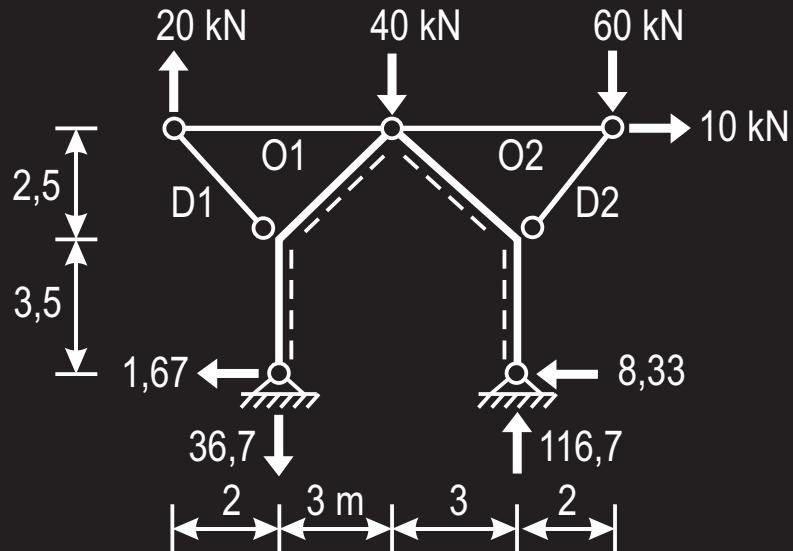




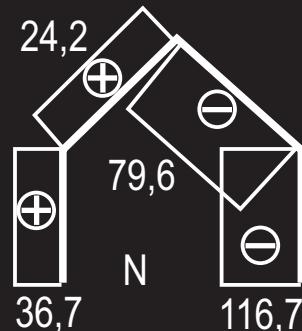
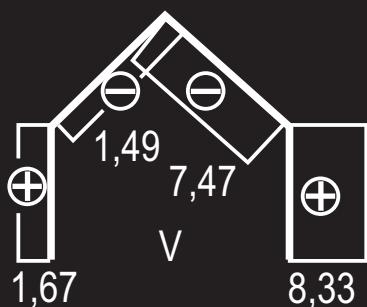
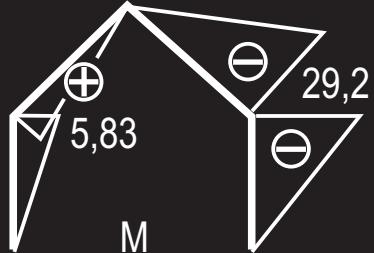
$$\begin{aligned} O_1 &= 30 \\ O_2 &= 120 \\ D_1 &= -31,6 \\ D_2 &= -126,5 \\ U &= -60 \end{aligned}$$

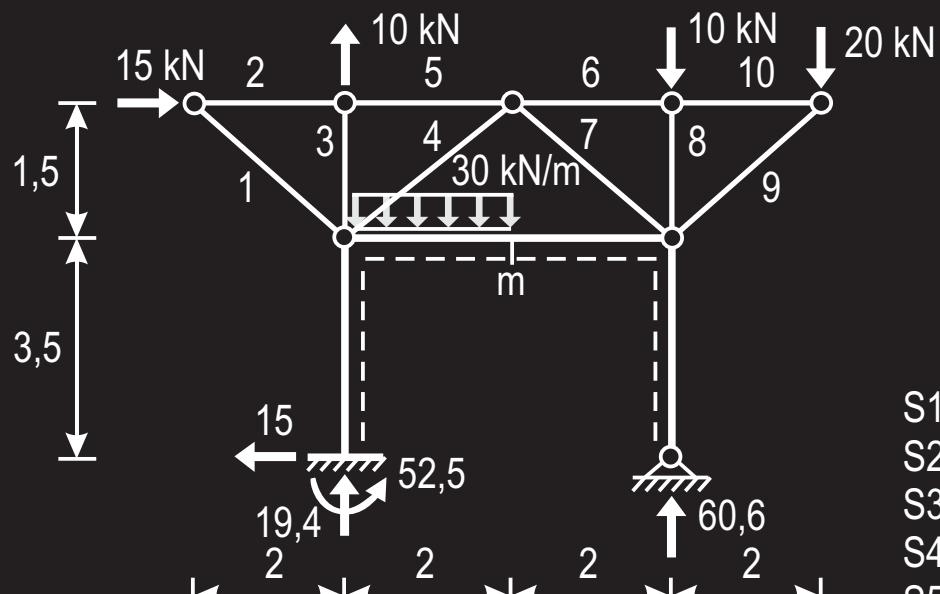






$$\begin{aligned}
 O1 &= -16 \\
 O2 &= 58 \\
 O3 &= 25,6 \\
 D2 &= -76,8
 \end{aligned}$$





$$\begin{array}{ll}
 S_1 = 0 & S_6 = 26,6 \\
 S_2 = -15 & S_7 = -26 \\
 S_3 = 10 & S_8 = -10 \\
 S_4 = 26 & S_9 = -33,3 \\
 S_5 = -15 & S_{10} = 26,6
 \end{array}$$

