

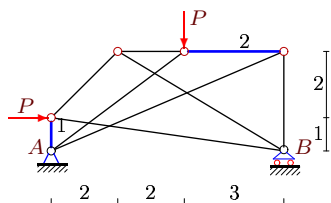
Расчет фермы

К плоской ферме приложены две одинаковые силы P . Найти усилия в стержнях 1 и 2 (выделены утолщением). Размеры даны в метрах.

Кирсанов М.Н. Задачи по теоретической механике с решениями в **Maple** 11. – М.: ФИЗМАТЛИТ, 2010. — 264 с. (с.44)

Задача S-27.1.

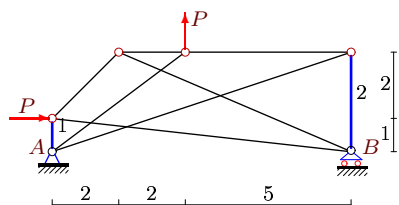
122



$$P = 21 \text{ кН}$$

Задача S-27.2.

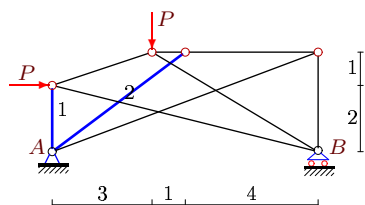
122



$$P = 9 \text{ кН}$$

Задача S-27.3.

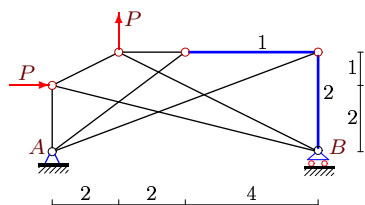
122



$$P = 8 \text{ кН}$$

Задача S-27.4.

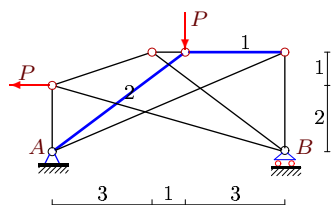
122



$$P = 8 \text{ кН}$$

Задача S-27.5.

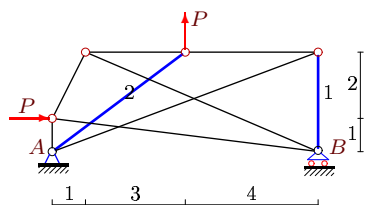
122



$$P = 21 \text{ кН}$$

Задача S-27.6.

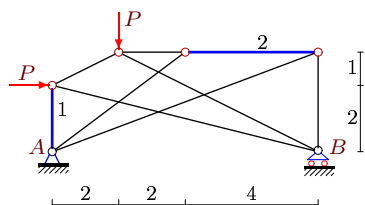
122



$$P = 24 \text{ кН}$$

Задача S-27.7.

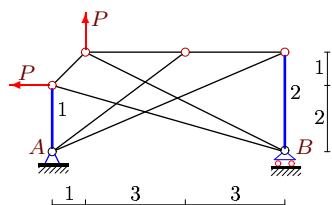
122



$$P = 8 \text{ кН}$$

Задача S-27.8.

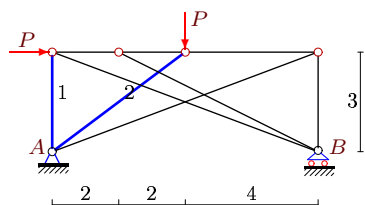
122



$$P = 7 \text{ кН}$$

Задача S-27.9.

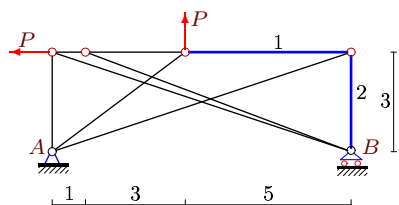
122



$$P = 24 \text{ кН}$$

Задача S-27.10.

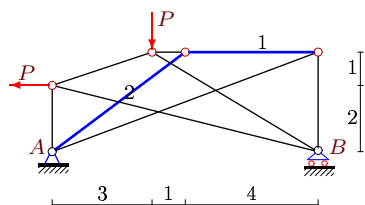
122



$$P = 9 \text{ кН}$$

Задача S-27.11.

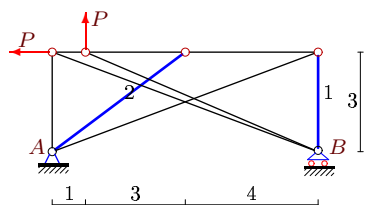
122



$$P = 8 \text{ кН}$$

Задача S-27.12.

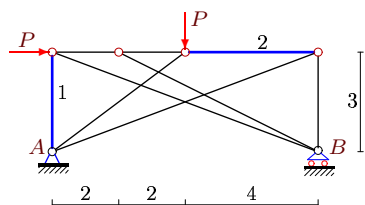
122



$$P = 8 \text{ кН}$$

Задача S-27.13.

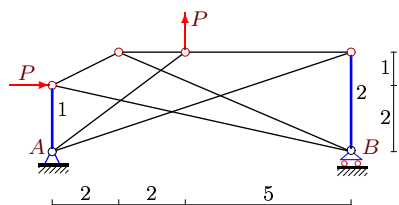
122



$$P = 24 \text{ кН}$$

Задача S-27.14.

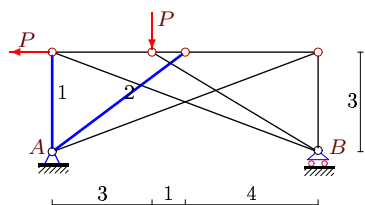
122



$$P = 9 \text{ кН}$$

Задача S-27.15.

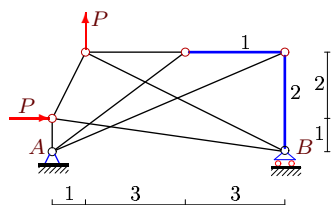
122



$$P = 8 \text{ кН}$$

Задача S-27.16.

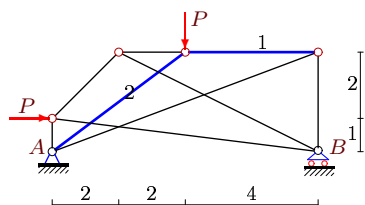
122



$$P = 7 \text{ кН}$$

Задача S-27.17.

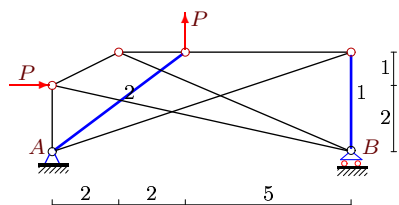
122



$$P = 24 \text{ кН}$$

Задача S-27.18.

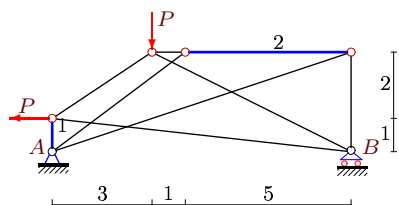
122



$$P = 9 \text{ кН}$$

Задача S-27.19.

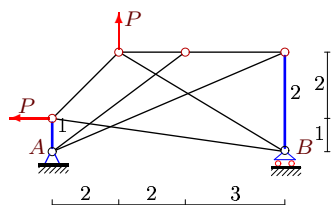
122



$$P = 9 \text{ кН}$$

Задача S-27.20.

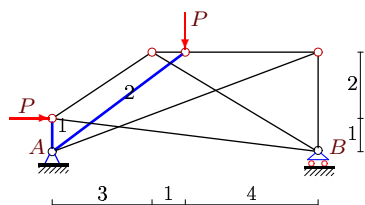
122



$$P = 7 \text{ кН}$$

Задача S-27.21.

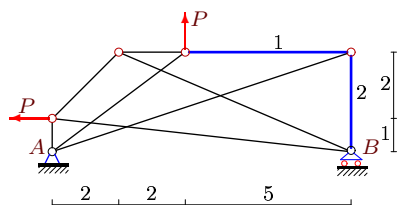
122



$$P = 24 \text{ кН}$$

Задача S-27.22.

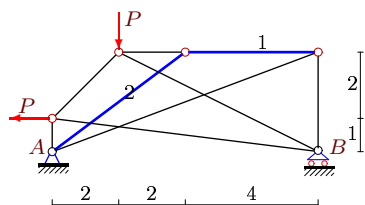
122



$$P = 9 \text{ кН}$$

Задача S-27.23.

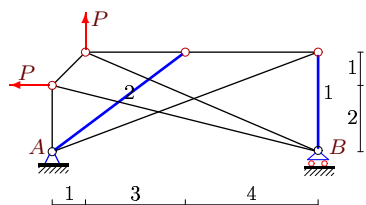
122



$$P = 8 \text{ кН}$$

Задача S-27.24.

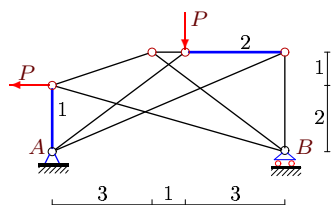
122



$$P = 8 \text{ кН}$$

Задача S-27.25.

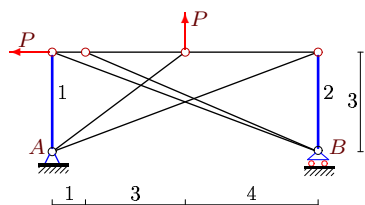
122



$$P = 21 \text{ кН}$$

Задача S-27.26.

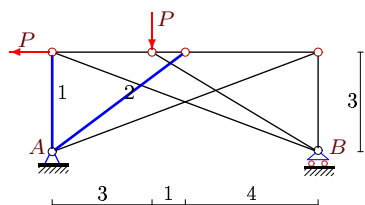
122



$$P = 8 \text{ кН}$$

Задача S-27.27.

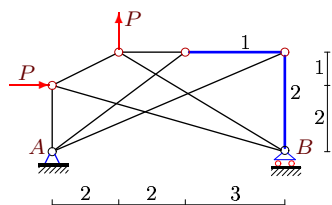
122



$$P = 8 \text{ кН}$$

Задача S-27.28.

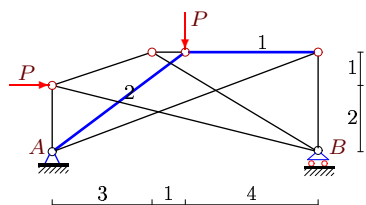
122



$$P = 7 \text{ кН}$$

Задача S-27.29.

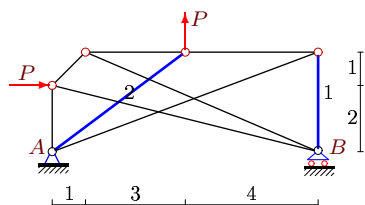
122



$$P = 12 \text{ кН}$$

Задача S-27.30.

122



$$P = 24 \text{ кН}$$

Ответы.**Расчет фермы**

08.05.2014

№	X_A	Y_A	X_B	Y_B	S_1	S_2
1	-21	6	-	15	-6	-49
2	-9	-6	-	-3	-2	1
3	-8	3	-	5	-6	0
4	-8	-8	-	0	-8	-3
5	21	15	-	6	-7	-35
6	-24	-15	-	-9	3	40
7	-8	4	-	4	-7	-8
8	7	-4	-	-3	7	3
9	-24	3	-	21	0	-40
10	9	-2	-	-7	21	7
11	8	7	-	1	8	0
12	8	-4	-	-4	3	0
13	-24	3	-	21	0	-56
14	-9	-7	-	-2	-1	1
15	8	8	-	0	-5	0
16	-7	-7	-	0	-7	-3
17	-24	9	-	15	-56	-40
18	-9	-7	-	-2	1	15
19	9	7	-	2	-4	9
20	7	-4	-	-3	7	3
21	-24	9	-	15	-6	-40
22	9	-4	-	-5	21	7
23	8	7	-	1	8	0
24	8	-5	-	-3	3	0
25	21	15	-	6	3	-7
26	8	-1	-	-7	0	7
27	8	8	-	0	-5	0
28	-7	-7	-	0	-7	-3
29	-12	3	-	9	-28	-20
30	-24	-18	-	-6	3	40