

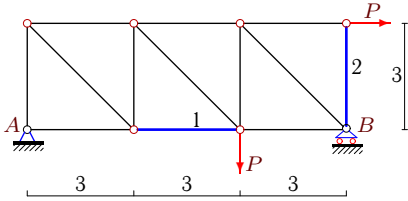
Расчет фермы

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

Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.37.)

Задача 27.1.

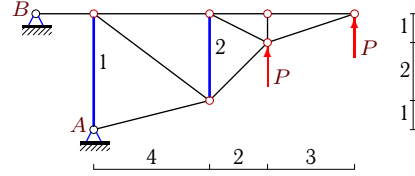
3



$P = 1 \text{ кН}$

Задача 27.2.

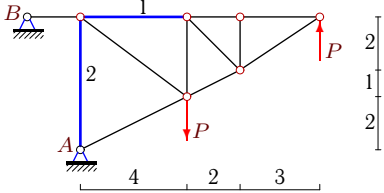
3



$P = 48 \text{ кН}$

Задача 27.3.

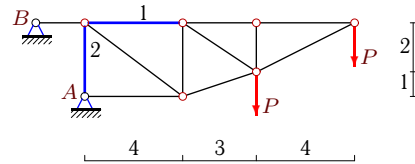
3



$P = 6 \text{ кН}$

Задача 27.4.

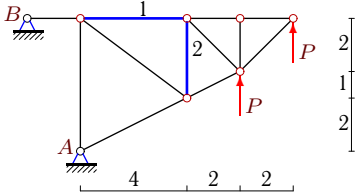
3



$P = 3 \text{ кН}$

Задача 27.5.

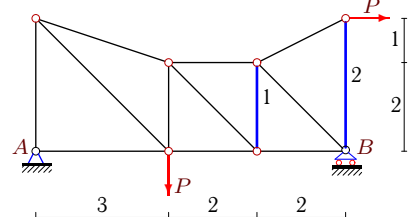
3



$P = 5 \text{ кН}$

Задача 27.6.

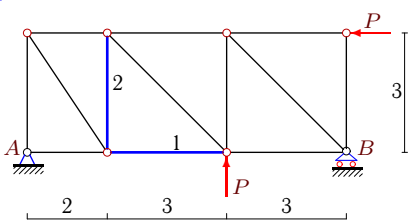
3



$P = 14 \text{ кН}$

Задача 27.7.

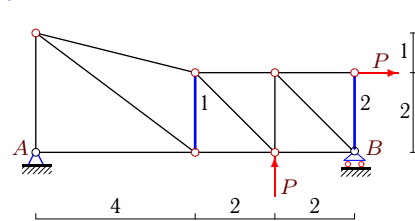
3



$P = 1 \text{ кН}$

Задача 27.8.

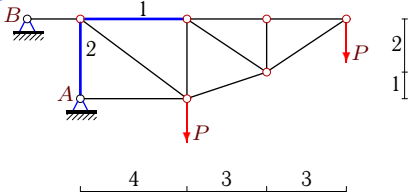
3



$P = 4 \text{ кН}$

Задача 27.9.

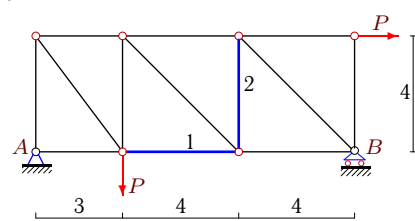
3



$P = 3 \text{ кН}$

Задача 27.10.

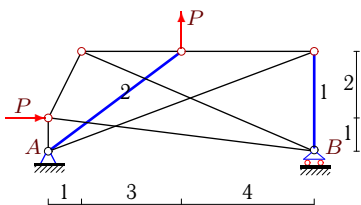
3



$P = 11 \text{ кН}$

Задача 27.11.

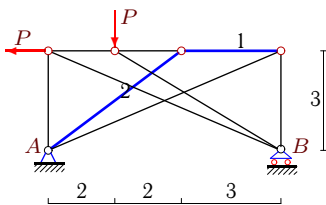
3



$P = 24 \text{ кН}$

Задача 27.13.

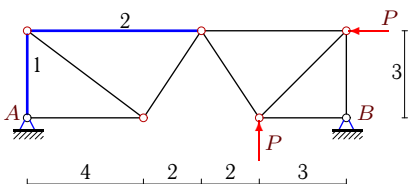
3



$P = 7 \text{ кН}$

Задача 27.15.

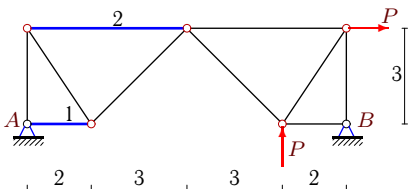
3



$P = 1 \text{ кН}$

Задача 27.17.

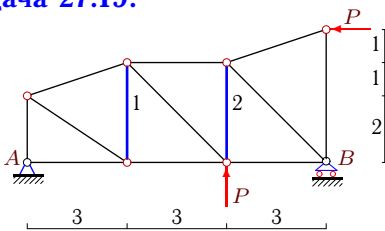
3



$P = 6 \text{ кН}$

Задача 27.19.

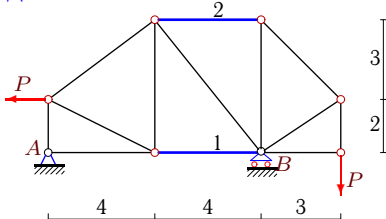
3



$P = 27 \text{ кН}$

Задача 27.21.

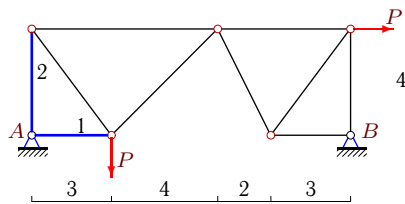
3



$P = 40 \text{ кН}$

Задача 27.12.

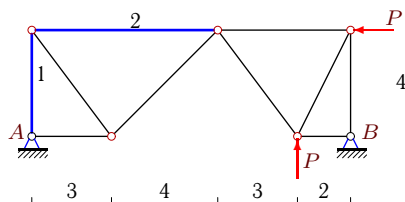
3



$P = 48 \text{ кН}$

Задача 27.14.

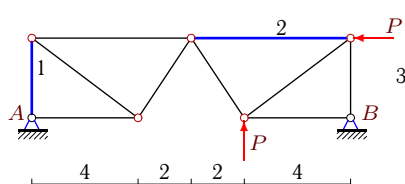
3



$P = 24 \text{ кН}$

Задача 27.16.

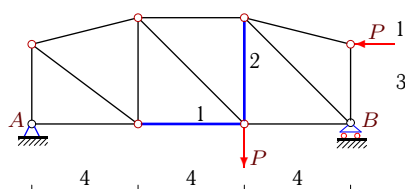
3



$P = 36 \text{ кН}$

Задача 27.18.

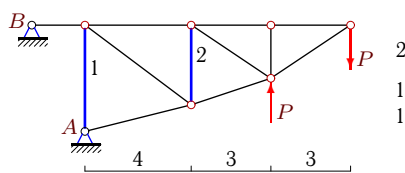
3



$P = 12 \text{ кН}$

Задача 27.20.

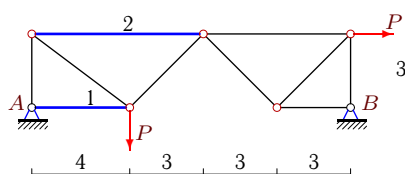
3



$P = 48 \text{ кН}$

Задача 27.22.

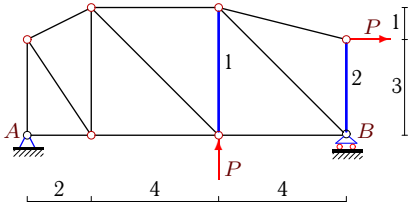
3



$P = 13 \text{ кН}$

Задача 27.23.

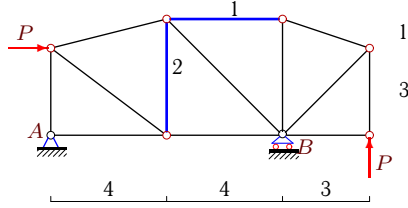
3



$P = 20 \text{ кН}$

Задача 27.24.

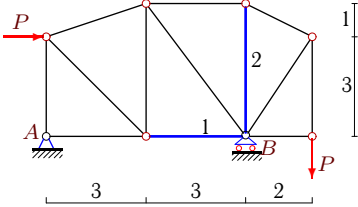
3



$P = 16 \text{ кН}$

Задача 27.25.

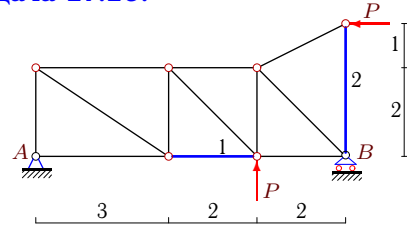
3



$P = 24 \text{ кН}$

Задача 27.26.

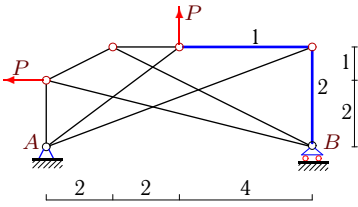
3



$P = 14 \text{ кН}$

Задача 27.27.

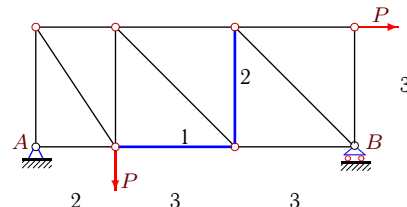
3



$P = 24 \text{ кН}$

Задача 27.28.

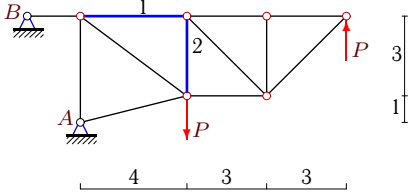
3



$P = 8 \text{ кН}$

Задача 27.29.

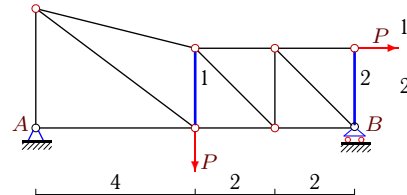
3



$P = 2 \text{ кН}$

Задача 27.30.

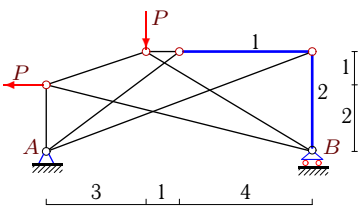
3



$P = 8 \text{ кН}$

Задача 27.31.

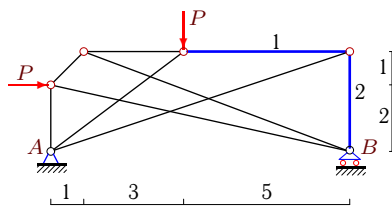
3



$P = 8 \text{ кН}$

Задача 27.32.

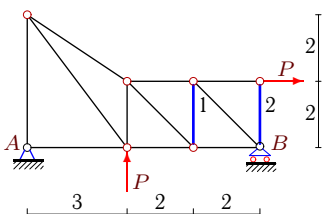
3



$P = 9 \text{ кН}$

Задача 27.33.

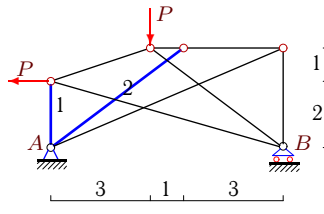
3



$P = 7 \text{ кН}$

Задача 27.34.

3



$P = 7 \text{ кН}$

Расчет фермы

28.10.2010

№	X_A	Y_A	X_B	Y_B	S_1	S_2
1	-1	0	-	1	1	0
2	-180	-96	180	-	51	-16
3	-6	0	6	-	-10	-3
4	18	6	-18	-	10	-6
5	-14	-10	14	-	-10	5
6	-14	2	-	12	12	-7
7	1	0	-	-1	-1	0
8	-4	-2	-	-2	3	0
9	14	6	-14	-	6	-6
10	-11	4	-	7	14	7
11	-24	-15	-	-9	3	40
12	-13	20	-35	28	13	-20
13	7	8	-	-1	7	0
14	7	4	17	-28	-4	-3
15	0	0	1	-1	0	0
16	-6	-3	42	-33	3	8
17	-5	-3	-1	-3	5	2
18	12	7	-	5	-5	5
19	27	3	-	-30	-2	-30
20	36	0	-36	-	9	16
21	40	-5	-	45	-20	24
22	1	6	-14	7	-1	-8
23	-20	-14	-	-6	-6	5
24	-16	0	-	-16	-12	3
25	-24	-20	-	44	3	-6
26	14	2	-	-16	-11	7
27	24	-6	-	-18	56	21
28	-8	3	-	5	10	5
29	-3	0	3	-	-4	2
30	-8	2	-	6	5	0
31	8	7	-	1	8	3
32	-9	3	-	6	-21	-7
33	-7	-6	-	-1	-1	0
34	7	6	-	1	-3	0