

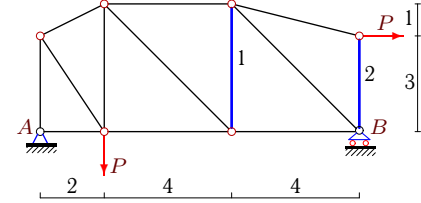
Расчет фермы

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.

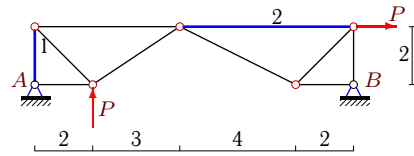
2



$P = 4 \text{ кН}$

Задача 27.2.

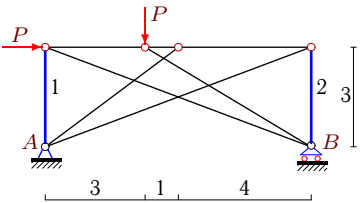
2



$P = 1 \text{ кН}$

Задача 27.3.

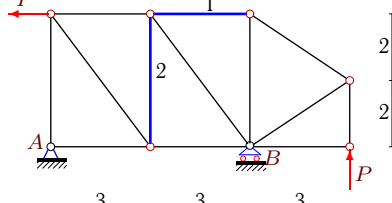
2



$P = 8 \text{ кН}$

Задача 27.4.

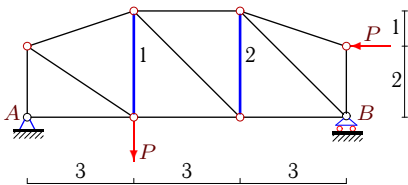
2



$P = 12 \text{ кН}$

Задача 27.5.

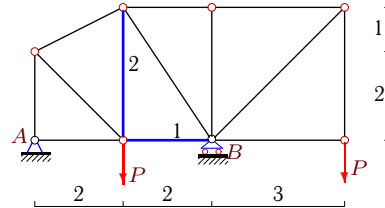
2



$P = 27 \text{ кН}$

Задача 27.6.

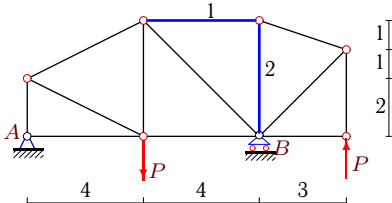
2



$P = 12 \text{ кН}$

Задача 27.7.

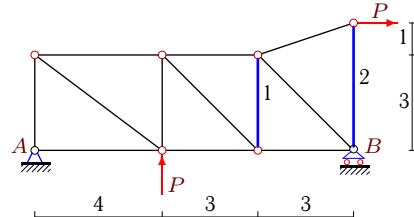
2



$P = 8 \text{ кН}$

Задача 27.8.

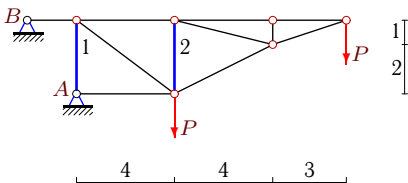
2



$P = 3 \text{ кН}$

Задача 27.9.

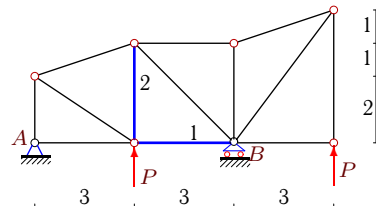
2



$P = 6 \text{ кН}$

Задача 27.10.

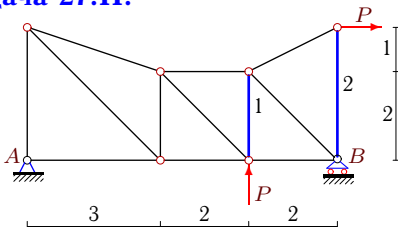
2



$P = 1 \text{ кН}$

Задача 27.11.

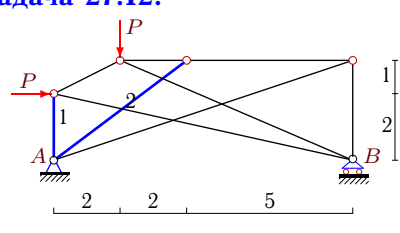
2



$P = 14 \text{ кН}$

Задача 27.12.

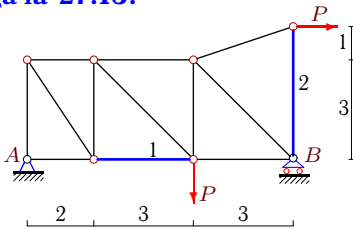
2



$P = 9 \text{ кН}$

Задача 27.13.

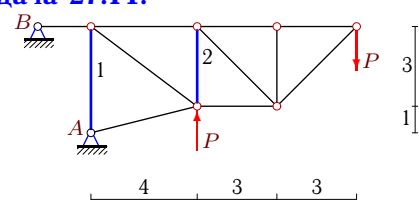
2



$P = 24 \text{ кН}$

Задача 27.14.

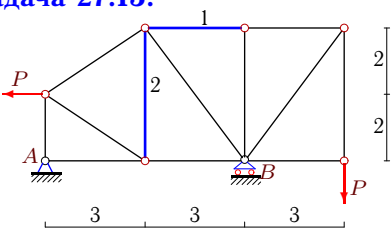
2



$P = 8 \text{ кН}$

Задача 27.15.

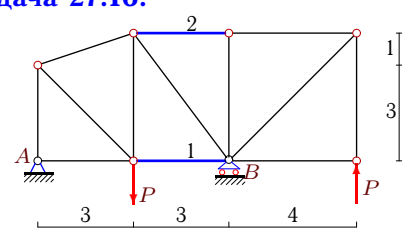
2



$P = 12 \text{ кН}$

Задача 27.16.

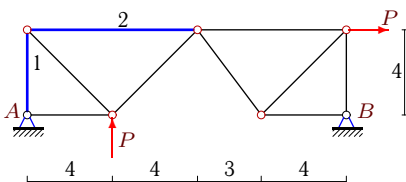
2



$P = 24 \text{ кН}$

Задача 27.17.

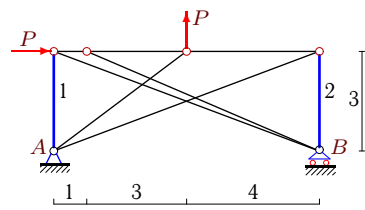
2



$P = 1 \text{ кН}$

Задача 27.18.

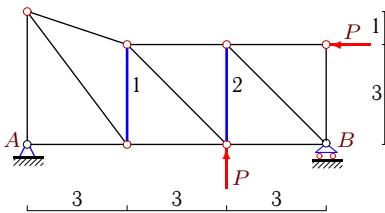
2



$P = 8 \text{ кН}$

Задача 27.19.

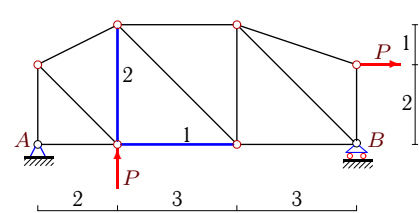
2



$P = 1 \text{ кН}$

Задача 27.20.

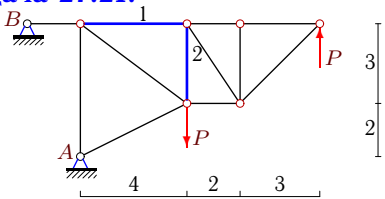
2



$P = 3 \text{ кН}$

Задача 27.21.

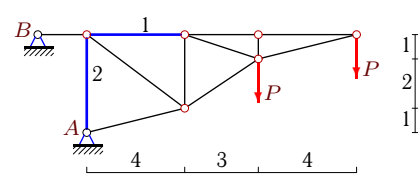
2



$P = 3 \text{ кН}$

Задача 27.22.

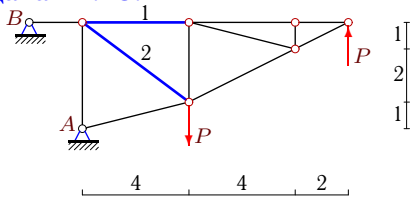
2



$P = 24 \text{ кН}$

Задача 27.23.

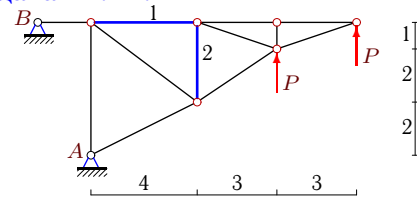
2



$P = 8 \text{ кН}$

Задача 27.24.

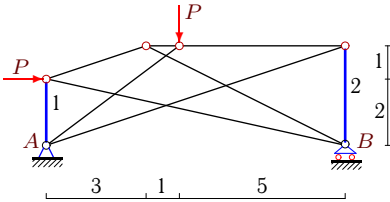
2



$P = 5 \text{ кН}$

Задача 27.25.

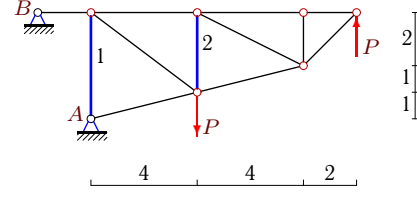
2



$P = 9 \text{ кН}$

Задача 27.26.

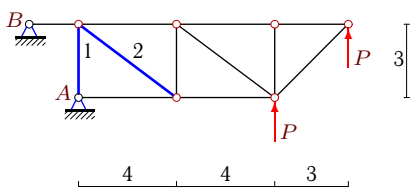
2



$P = 8 \text{ кН}$

Задача 27.27.

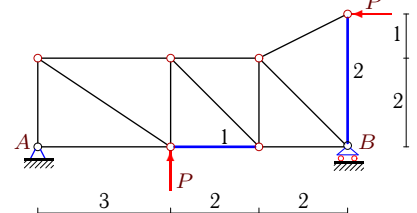
2



$P = 3 \text{ кН}$

Задача 27.28.

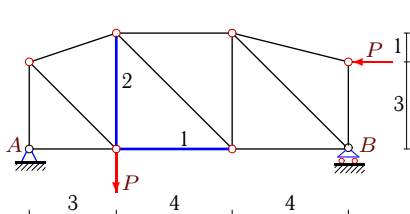
2



$P = 14 \text{ кН}$

Задача 27.29.

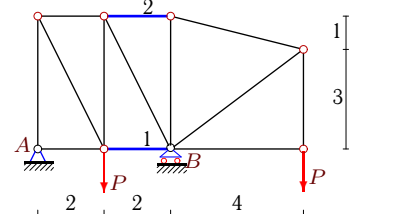
2



$P = 4 \text{ кН}$

Задача 27.30.

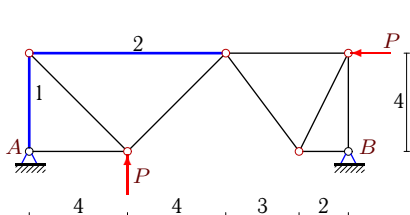
2



$P = 4 \text{ кН}$

Задача 27.31.

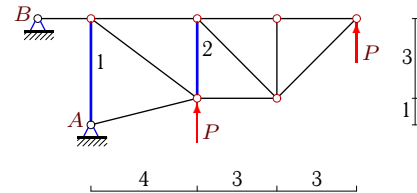
2



$P = 13 \text{ кН}$

Задача 27.32.

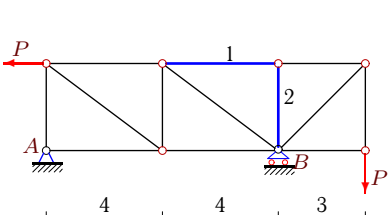
2



$P = 8 \text{ кН}$

Задача 27.33.

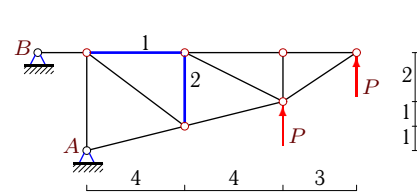
2



$P = 1 \text{ кН}$

Задача 27.34.

2



$P = 12 \text{ кН}$

Расчет фермы

28.10.2010

№	X_A	Y_A	X_B	Y_B	S_1	S_2
1	-4	2	-	2	2	1
2	-1	-1	0	0	1	1
3	-8	2	-	6	-5	-3
4	12	14	-	-26	-9	-14
5	27	24	-	3	11	3
6	0	-3	-	27	-2	14
7	0	7	-	-7	-6	2
8	-3	-3	-	0	0	-1
9	30	12	-30	-	-12	1
10	0	0	-	-2	0	-1
11	-14	-10	-	-4	-4	-7
12	-9	5	-	4	-8	0
13	-24	-3	-	27	22	-8
14	12	0	-12	-	3	-8
15	12	-2	-	14	9	-3
16	0	28	-	-28	21	-24
17	-1	-1	0	0	1	1
18	-8	-7	-	-1	0	1
19	1	0	-	-1	0	-1
20	-3	-3	-	0	1	-1
21	-3	0	3	-	-5	3
22	108	48	-108	-	80	-21
23	-12	0	12	-	-16	5
24	-17	-10	17	-	-15	0
25	-9	3	-	6	-1	-7
26	-12	0	12	-	-3	4
27	-19	-6	19	-	6	-10
28	14	-2	-	-12	-17	7
29	4	4	-	0	-1	1
30	0	-2	-	10	-1	4
31	3	-5	10	-8	5	5
32	-28	-16	28	-	9	8
33	1	0	-	1	1	0
34	-57	-24	57	-	-44	13