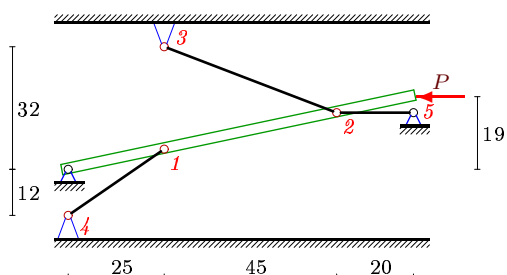


Статически неопределимая система

Дан ряд $p = [0.1, 0.3, 0.4, 0.2]$ распределения дискретной случайной величины силы $P_i, i = 1, \dots, 4$, приложенной к балке. Найти математические ожидания и дисперсии усилий в стержнях.

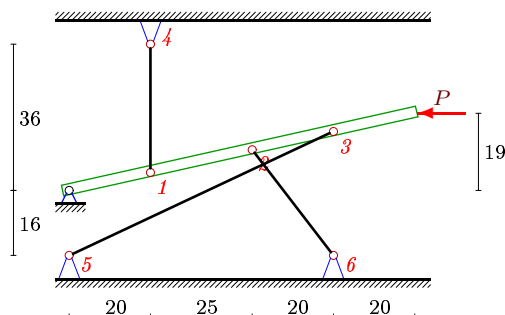
Задача L-16.1.

$P = [14, 13, 11, 8]$ кН.



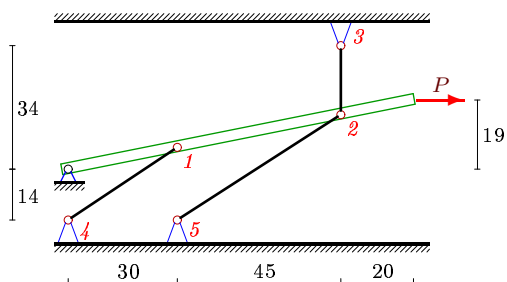
Задача L-16.2.

$P = [16, 15, 13, 10]$ кН.



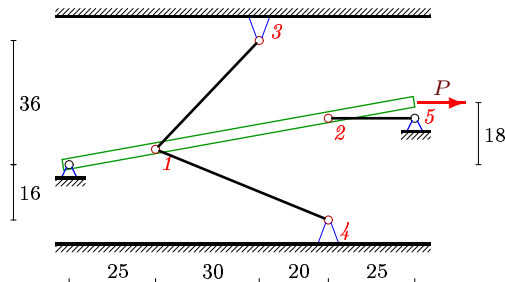
Задача L-16.3.

$P = [18, 19, 21, 24]$ кН.



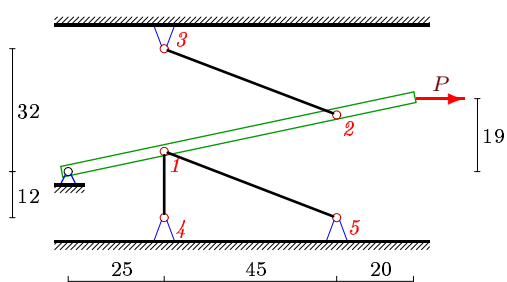
Задача L-16.4.

$P = [22, 23, 25, 28]$ кН.



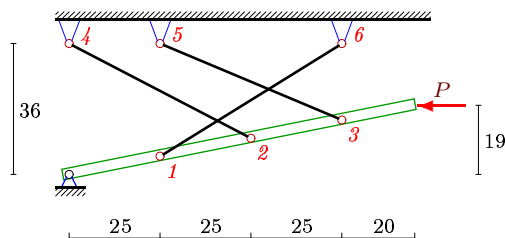
Задача L-16.5.

$P = [12, 13, 15, 18]$ кН.



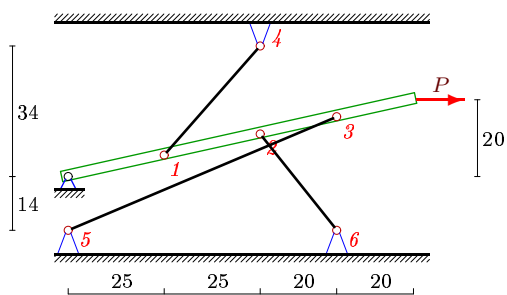
Задача L-16.6.

$P = [10, 9, 7, 4]$ кН.



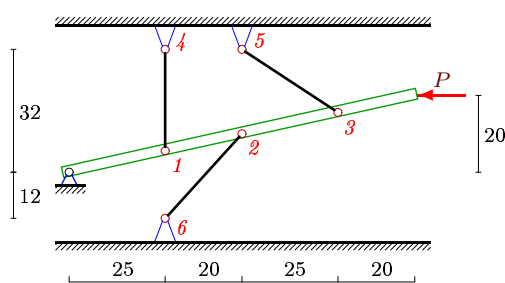
Задача L-16.7.

$P = [18, 19, 21, 24]$ кН.



Задача L-16.8.

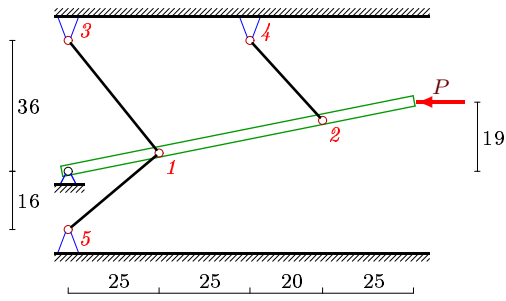
$P = [16, 15, 13, 10]$ кН.



Задача L-16.9.

2

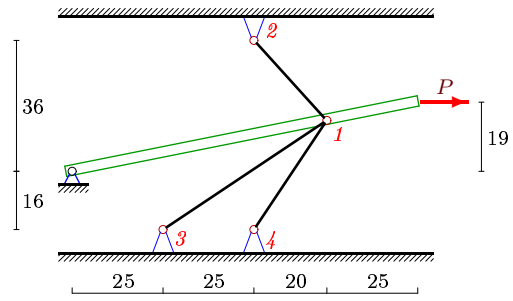
$P = [11, 10, 8, 5]$ кН.



Задача L-16.10.

2

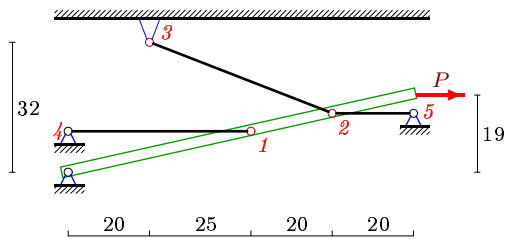
$P = [22, 23, 25, 28]$ кН.



Задача L-16.11.

2

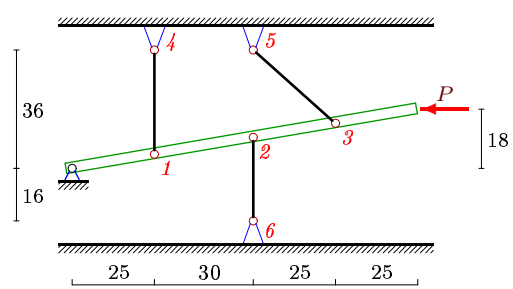
$P = [12, 13, 15, 18]$ кН.



Задача L-16.12.

2

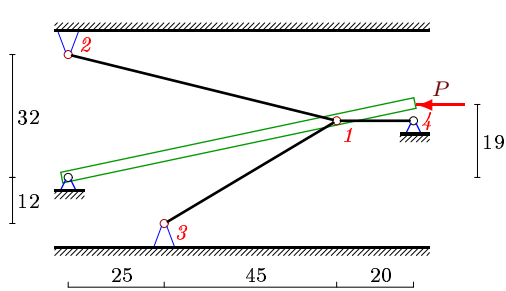
$P = [16, 15, 13, 10]$ кН.



Задача L-16.13.

2

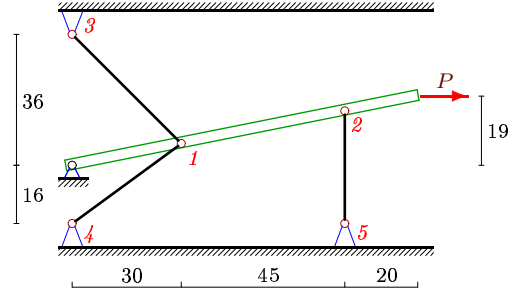
$P = [17, 16, 14, 11]$ кН.



Задача L-16.14.

2

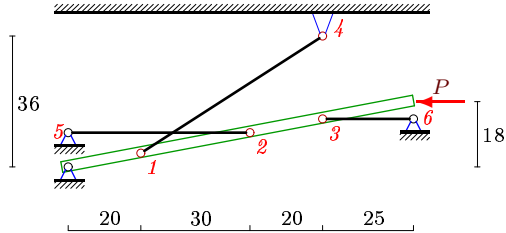
$P = [20, 21, 23, 26]$ кН.



Задача L-16.15.

2

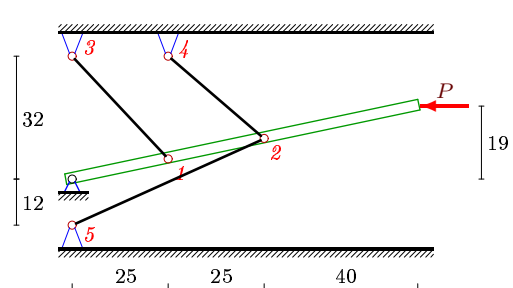
$P = [10, 9, 7, 4]$ кН.



Задача L-16.16.

2

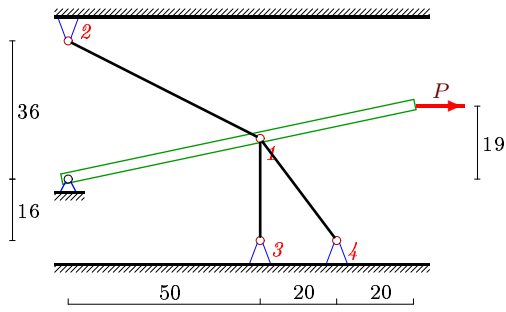
$P = [19, 18, 16, 13]$ кН.



Задача L-16.17.

2

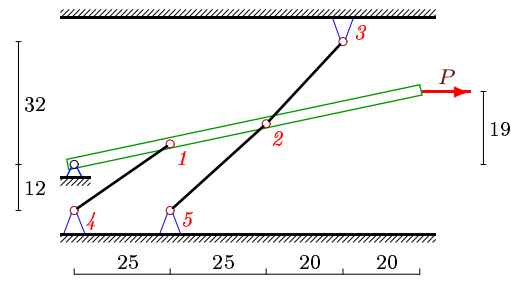
$P = [20, 21, 23, 26]$ кН.



Задача L-16.18.

2

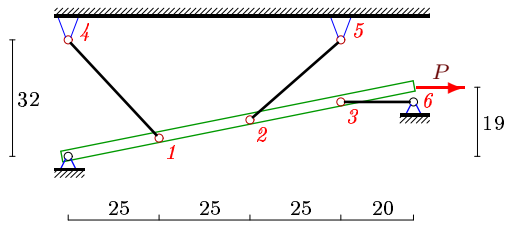
$P = [12, 13, 15, 18]$ кН.



Задача L-16.19.

2

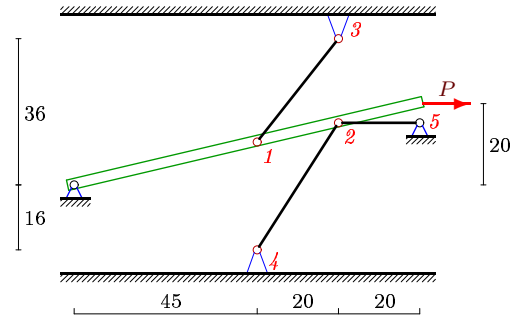
$P = [10, 11, 13, 16]$ кН.



Задача L-16.20.

2

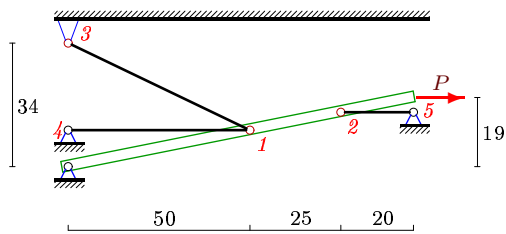
$P = [20, 21, 23, 26]$ кН.



Задача L-16.21.

2

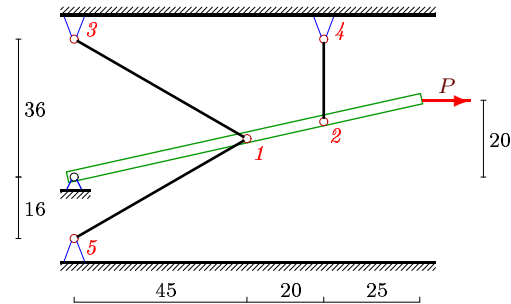
$P = [18, 19, 21, 24]$ кН.



Задача L-16.22.

2

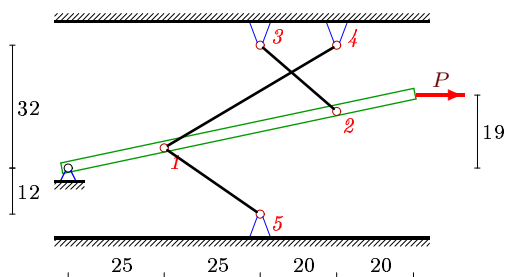
$P = [22, 23, 25, 28]$ кН.



Задача L-16.23.

2

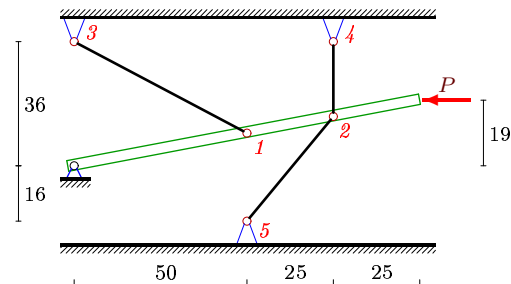
$P = [16, 17, 19, 22]$ кН.



Задача L-16.24.

2

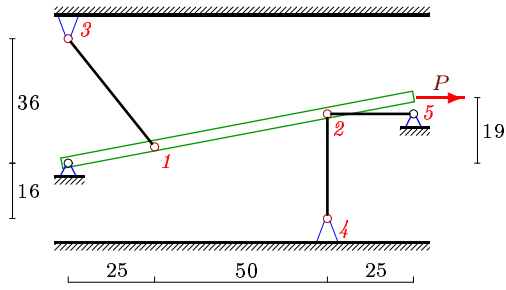
$P = [18, 17, 15, 12]$ кН.



Задача L-16.25.

2

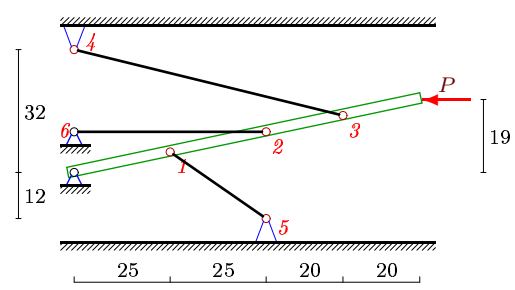
$P = [10, 11, 13, 16]$ кН.



Задача L-16.26.

2

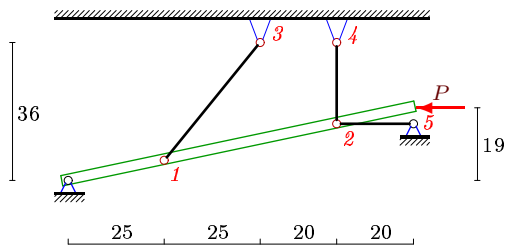
$P = [17, 16, 14, 11]$ кН.



Задача L-16.27.

2

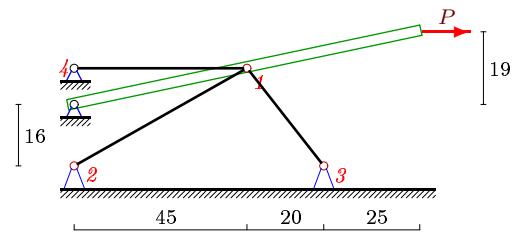
$P = [13, 12, 10, 7]$ кН.



Задача L-16.28.

2

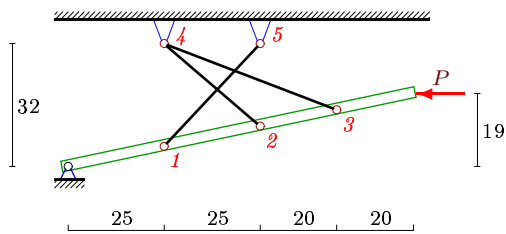
$P = [24, 25, 27, 30]$ кН.



Задача L-16.29.

2

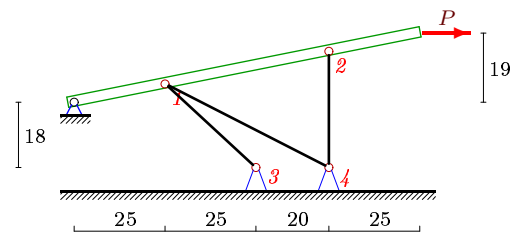
$P = [13, 12, 10, 7]$ кН.



Задача L-16.30.

2

$P = [26, 27, 29, 32]$ кН.



Ответы.
Статически неопределимая система

22-Jan-16

N^o	m	D	α_2	m	D	α_2	m	D	α_2
1	-3.810	0.433	14.948	1.536	0.070	2.430	3.494	0.364	12.571
		S_{2-3}			S_{1-4}			S_{2-5}	
2	-2.328	0.117	5.537	4.673	0.470	22.304	0.740	0.012	0.560
		S_{1-4}			S_{2-6}			S_{3-5}	
3	4.937	0.217	24.588	-0.655	0.004	0.432	-0.404	0.001	0.165
		S_{2-3}			S_{2-5}			S_{1-4}	
4	-7.058	0.311	50.123	-15.091	1.422	229.162	9.637	0.580	93.446
		S_{1-4}			S_{2-5}			S_{1-3}	
5	-5.656	0.564	32.552	-1.126	0.022	1.291	3.149	0.175	10.093
		S_{1-4}			S_{1-5}			S_{2-3}	
6	-0.394	0.011	0.167	-2.055	0.302	4.526	-1.473	0.155	2.326
		S_{1-6}			S_{3-5}			S_{2-4}	
7	-7.998	0.569	64.533	-0.947	0.008	0.904	2.225	0.044	4.997
		S_{2-6}			S_{3-5}			S_{1-4}	
8	-1.851	0.074	3.498	-3.367	0.244	11.578	1.749	0.066	3.126
		S_{1-4}			S_{3-5}			S_{2-6}	
9	-2.263	0.283	5.406	0.413	0.009	0.180	-0.624	0.022	0.411
		S_{2-4}			S_{1-5}			S_{1-3}	
10	-3.123	0.061	9.816	-1.121	0.008	1.265	4.593	0.132	21.229
		S_{1-4}			S_{1-3}			S_{1-2}	
11	1.513	0.040	2.329	5.197	0.476	27.485	-4.917	0.426	24.599
		S_{1-4}			S_{2-3}			S_{2-5}	
12	-0.729	0.011	0.543	-1.752	0.066	3.136	2.000	0.086	4.084
		S_{1-4}			S_{3-5}			S_{2-6}	
13	-3.395	0.215	11.738	5.819	0.631	34.491	3.474	0.225	12.290
		S_{1-2}			S_{1-4}			S_{1-3}	
14	-0.743	0.004	0.557	-5.186	0.199	27.096	1.286	0.012	1.666
		S_{1-4}			S_{2-5}			S_{1-3}	
15	-1.721	0.212	3.174	-2.537	0.460	6.895	7.103	3.607	54.060
		S_{1-4}			S_{2-5}			S_{3-6}	
16	-2.838	0.115	8.168	0.947	0.013	0.910	-5.850	0.491	34.712
		S_{1-3}			S_{2-5}			S_{2-4}	
17	-3.394	0.085	11.604	1.394	0.014	1.958	-4.589	0.156	21.218
		S_{1-4}			S_{1-2}			S_{1-3}	
18	5.362	0.507	29.257	-4.080	0.293	16.938	-1.739	0.053	3.078
		S_{2-3}			S_{2-5}			S_{1-4}	
19	-4.145	0.406	17.589	3.266	0.252	10.916	4.236	0.424	18.369
		S_{3-6}			S_{1-4}			S_{2-5}	
20	-5.946	0.261	35.613	4.228	0.132	18.009	-3.629	0.097	13.265
		S_{2-4}			S_{1-3}			S_{2-5}	
21	2.605	0.060	6.849	7.200	0.461	52.298	-9.771	0.849	96.313
		S_{1-4}			S_{1-3}			S_{2-5}	

№			
1	-4.720	1.903	4.329
2	-2.801	5.621	0.890
3	4.293	-0.569	-0.351
4	-6.286	-13.441	8.583
5	-4.617	-0.919	2.571
6	-0.540	-2.816	-2.018
7	-6.955	-0.823	1.935
8	-2.226	-4.050	2.104
9	-3.000	0.547	-0.827
10	-2.782	-0.999	4.091
11	1.235	4.242	-4.014
12	-0.877	-2.108	2.406
13	-4.036	6.918	4.129
14	-0.655	-4.569	1.133
15	-2.358	-3.475	9.730
16	-3.308	1.104	-6.819
17	-2.990	1.228	-4.044
18	4.377	-3.330	-1.420
19	-3.264	2.571	3.336
20	-5.239	3.725	-3.197
21	2.266	6.261	-8.496
22	-0.537	6.075	1.208
23	-1.373	4.846	0.353
24	-0.570	1.260	-3.499
25	-0.524	0.517	-2.279
26	-5.166	-2.530	7.317
27	-0.403	-3.281	0.735
28	-9.959	-2.105	1.651
29	-1.135	-3.492	-2.285
30	-1.757	-6.335	-0.907