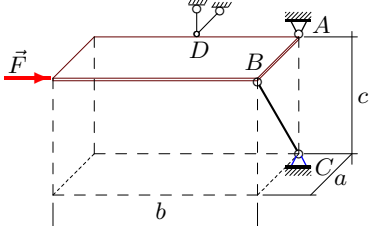
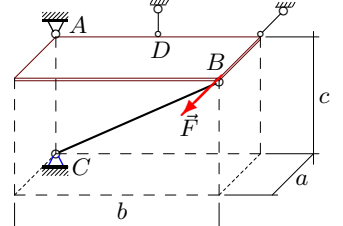
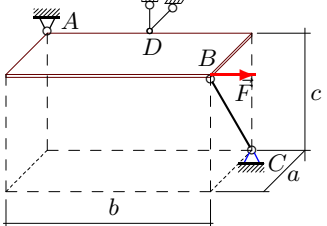
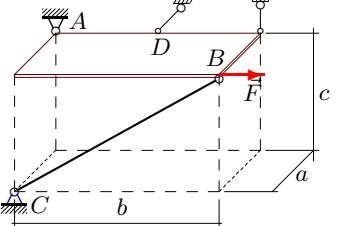
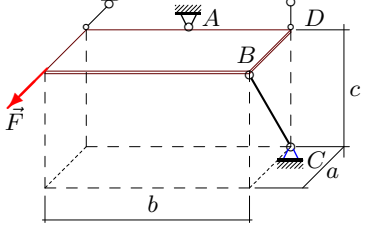
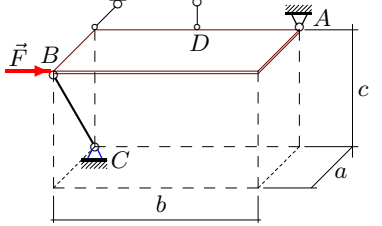
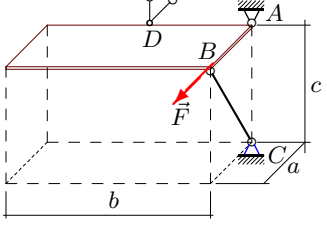
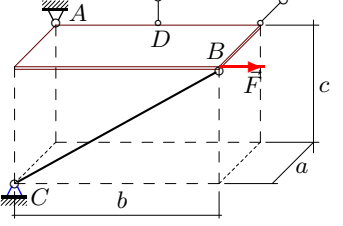
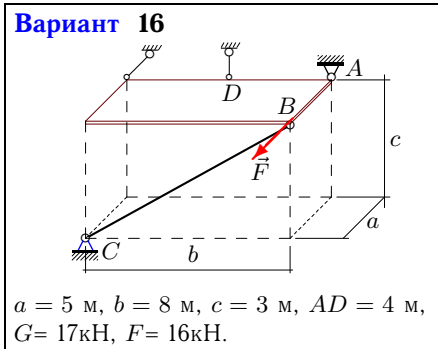
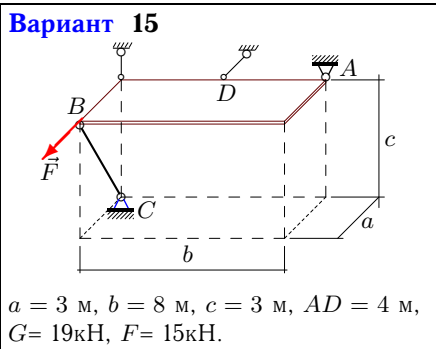
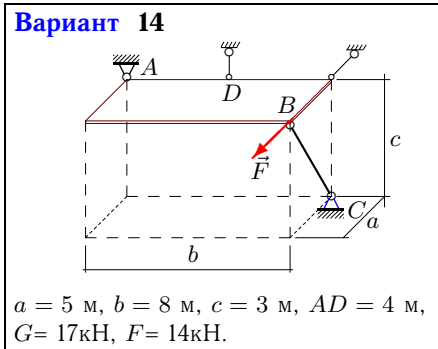
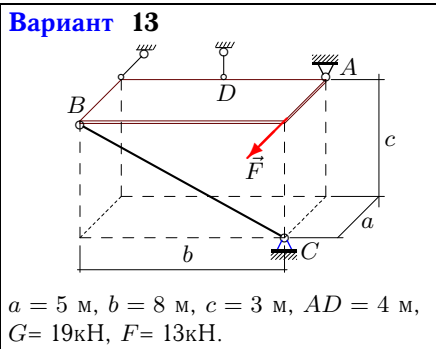
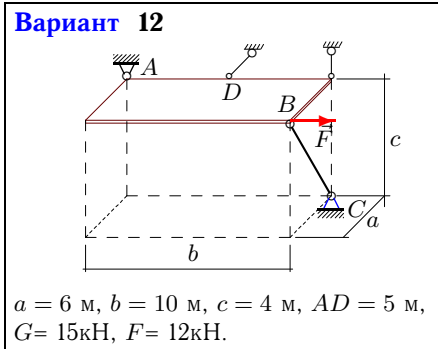
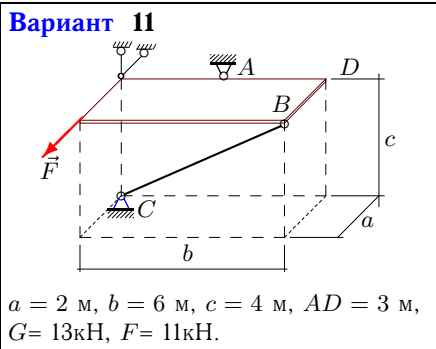
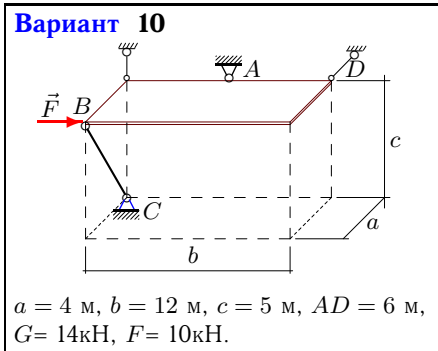
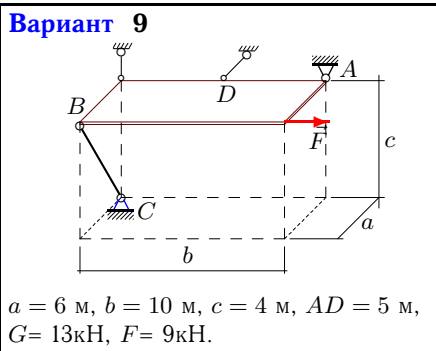


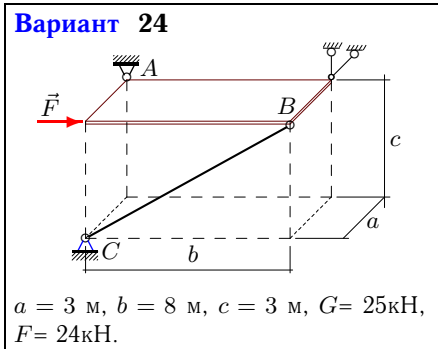
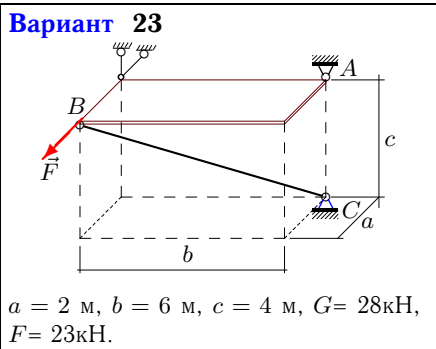
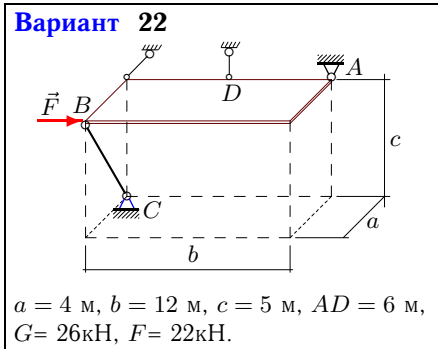
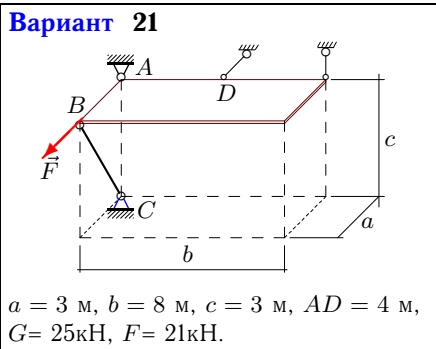
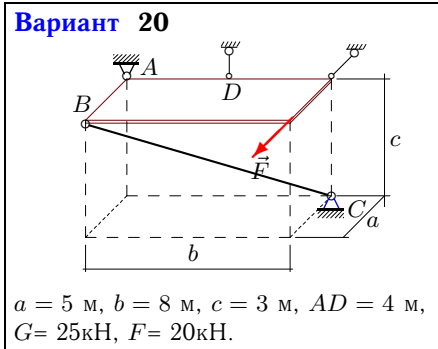
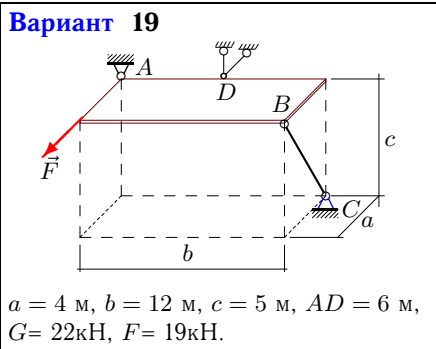
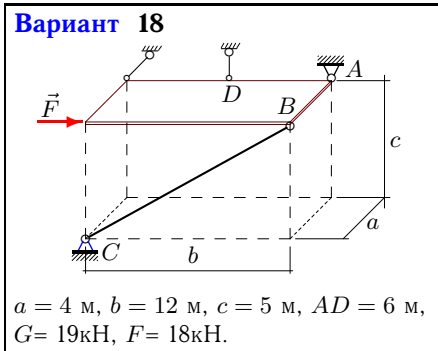
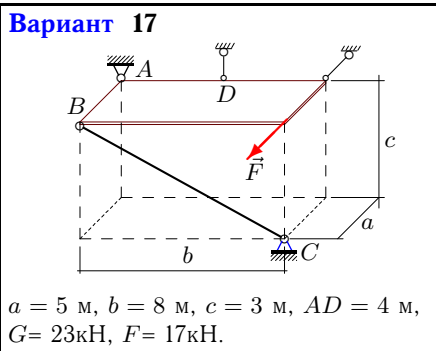
Тело на сферической и стержневых опорах

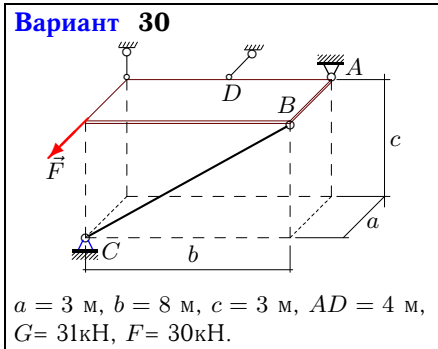
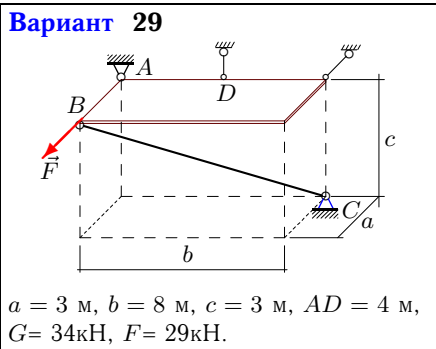
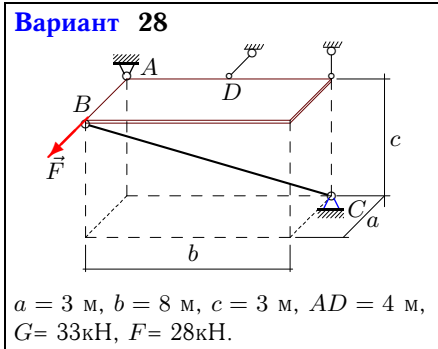
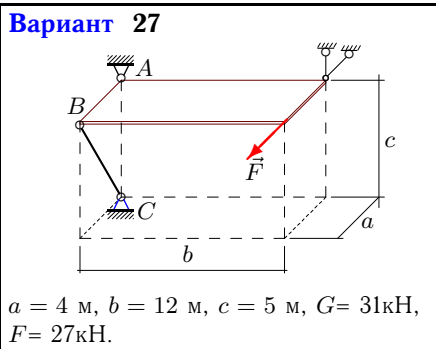
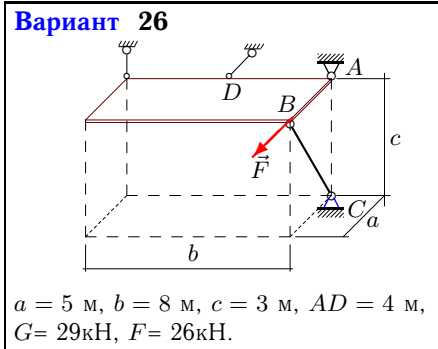
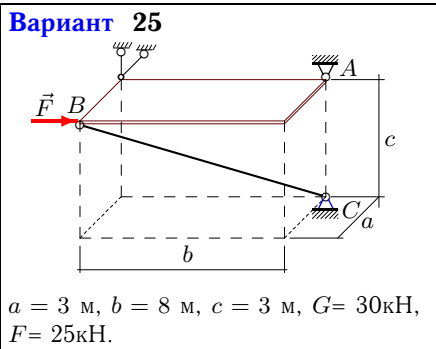
Горизонтальная однородная прямоугольная полка весом G имеет в точке A сферическую опору и поддерживается двумя невесомыми, шарнирно закрепленными по концам, стержнями (горизонтальным и вертикальным) и подпоркой BC . К полке приложена сила F , направленная вдоль одного из ее ребер. Определить реакции опор (в кН).

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<p>Вариант 1</p>  <p>$a = 5 \text{ м}, b = 8 \text{ м}, c = 3 \text{ м}, AD = 4 \text{ м},$ $G = 4 \text{ кН}, F = 1 \text{ кН}.$</p>	<p>Вариант 2</p>  <p>$a = 5 \text{ м}, b = 8 \text{ м}, c = 3 \text{ м}, AD = 4 \text{ м},$ $G = 4 \text{ кН}, F = 2 \text{ кН}.$</p>
<p>Вариант 3</p>  <p>$a = 7 \text{ м}, b = 12 \text{ м}, c = 5 \text{ м}, AD = 6 \text{ м},$ $G = 6 \text{ кН}, F = 3 \text{ кН}.$</p>	<p>Вариант 4</p>  <p>$a = 6 \text{ м}, b = 10 \text{ м}, c = 4 \text{ м}, AD = 5 \text{ м},$ $G = 5 \text{ кН}, F = 4 \text{ кН}.$</p>
<p>Вариант 5</p>  <p>$a = 3 \text{ м}, b = 8 \text{ м}, c = 3 \text{ м}, AD = 4 \text{ м},$ $G = 8 \text{ кН}, F = 5 \text{ кН}.$</p>	<p>Вариант 6</p>  <p>$a = 4 \text{ м}, b = 12 \text{ м}, c = 5 \text{ м}, AD = 6 \text{ м},$ $G = 10 \text{ кН}, F = 6 \text{ кН}.$</p>
<p>Вариант 7</p>  <p>$a = 6 \text{ м}, b = 10 \text{ м}, c = 4 \text{ м}, AD = 5 \text{ м},$ $G = 10 \text{ кН}, F = 7 \text{ кН}.$</p>	<p>Вариант 8</p>  <p>$a = 6 \text{ м}, b = 10 \text{ м}, c = 4 \text{ м}, AD = 5 \text{ м},$ $G = 9 \text{ кН}, F = 8 \text{ кН}.$</p>







Ответы

	H	V	X_A	Y_A	Z_A	S
1	-1.250	4.000	-2.083	-1.000	-2.000	-3.887
2	-2.000	-0.000	-3.333	-5.333	2.000	-6.600
3	-4.900	-0.000	0.700	-3.000	3.000	-5.161
4	12.300	0.000	-12.300	-10.250	2.500	-6.731
5	-1.000	-4.000	-8.000	0.000	8.000	-5.657
6	-6.000	0.000	2.000	-6.000	5.000	-6.403
7	0.000	10.000	-14.500	0.000	-5.000	-9.014
8	11.550	0.000	-11.550	-19.250	4.500	-12.117
9	-30.300	-0.000	20.550	-9.000	6.500	-11.718
10	12.267	-7.000	-17.867	-10.000	14.000	-8.964
11	-14.250	6.500	0.000	-9.750	-0.000	-12.160
12	-8.100	-0.000	-3.150	-12.000	7.500	-13.521
13	15.833	0.000	-28.833	25.333	9.500	-27.056
14	-28.167	0.000	0.000	0.000	8.500	-16.521
15	-49.000	0.000	24.500	0.000	9.500	-13.435
16	-14.167	17.000	-1.833	-22.667	-8.500	-24.208
17	-36.167	23.000	19.167	30.667	-11.500	-32.752
18	-13.600	19.000	13.600	-40.800	-9.500	-24.700
19	-17.600	-0.000	-10.200	0.000	11.000	-14.087
20	-40.833	25.000	0.000	33.333	-12.500	-41.248
21	0.000	12.500	-33.500	0.000	0.000	-17.678
22	-17.733	-0.000	7.333	-22.000	13.000	-16.648
23	-23.000	0.000	-7.000	21.000	14.000	-26.192
24	21.500	0.000	-21.500	-57.333	12.500	-35.600
25	-9.375	0.000	-5.625	15.000	15.000	-45.277
26	-0.000	14.500	-50.167	0.000	0.000	-28.183
27	-27.000	15.500	-12.400	0.000	0.000	-19.850
28	-33.000	16.500	-11.500	44.000	0.000	-49.805
29	-17.000	34.000	-29.000	45.333	-17.000	-51.314
30	-91.000	15.500	61.000	-41.333	0.000	-44.144