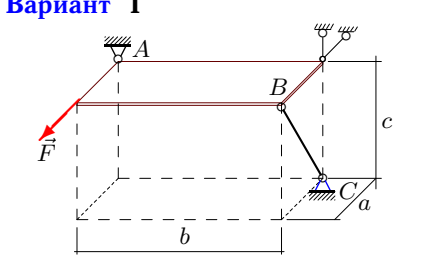
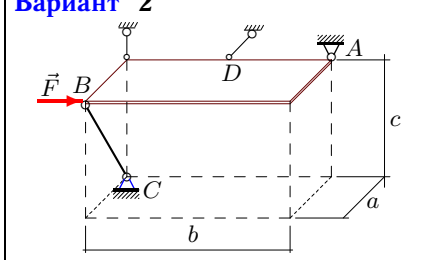
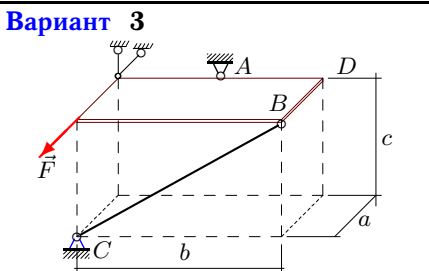
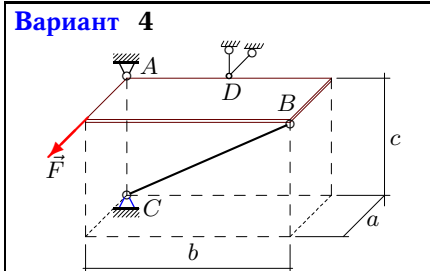
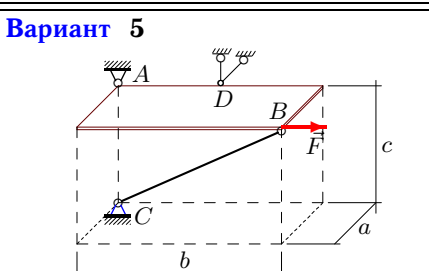
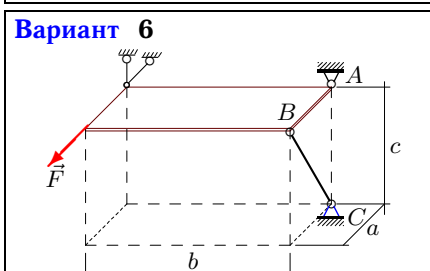
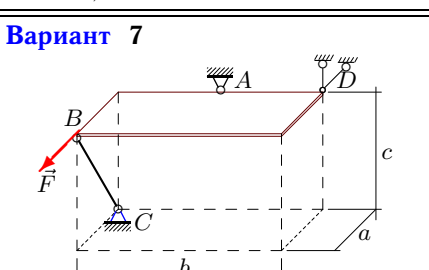
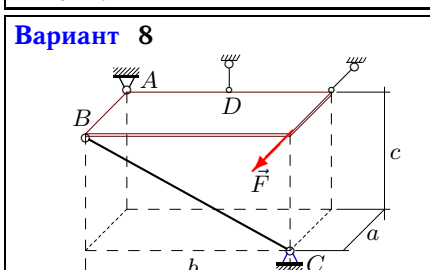
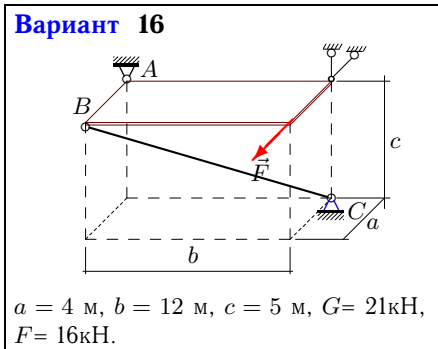
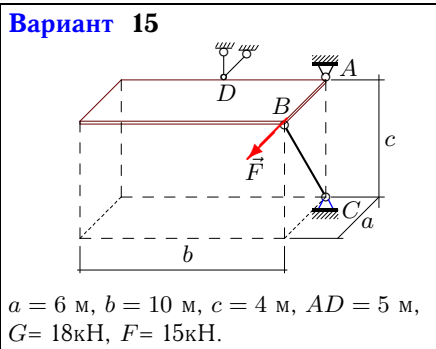
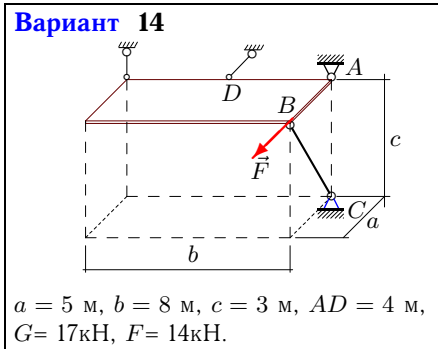
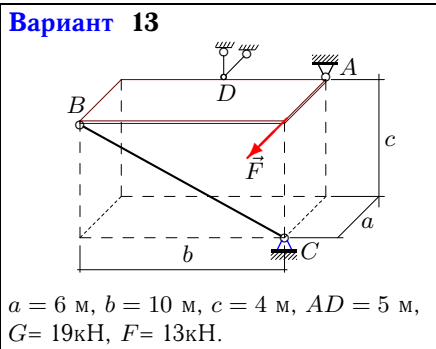
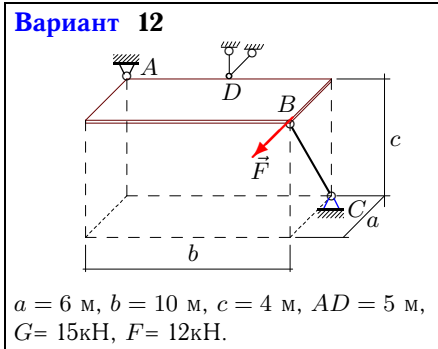
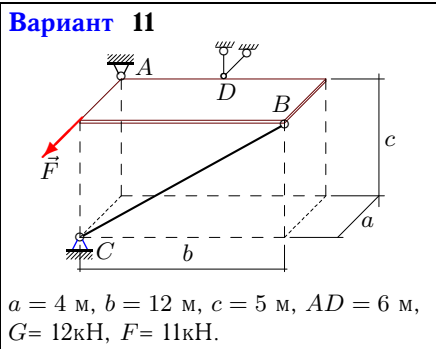
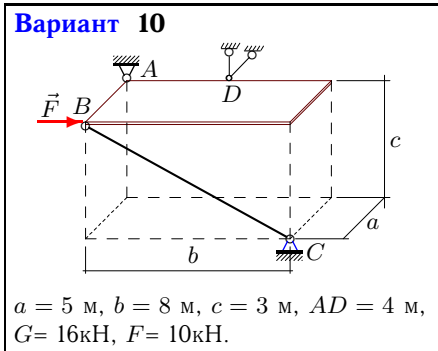
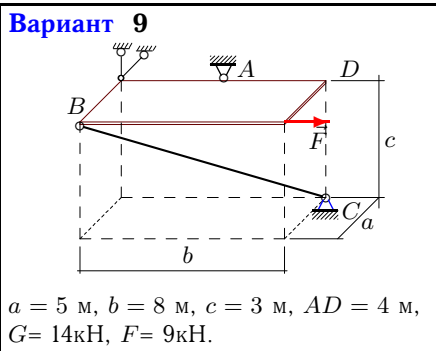


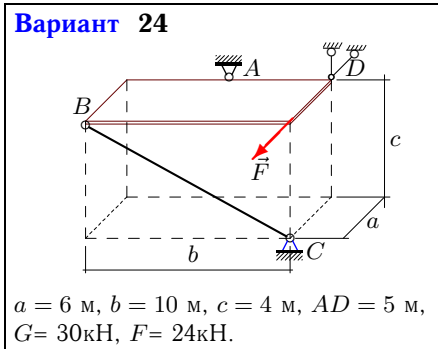
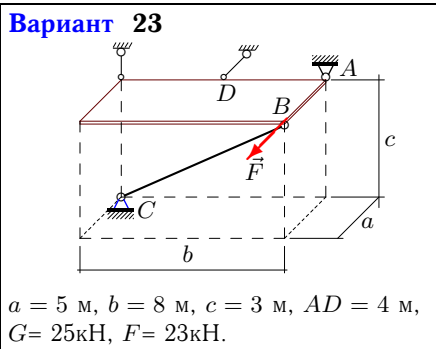
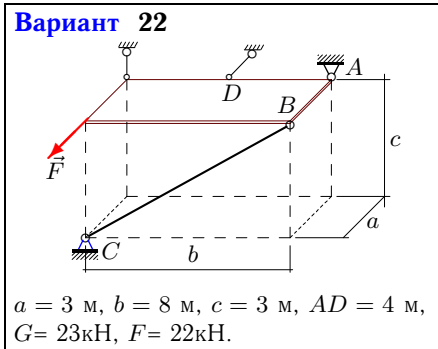
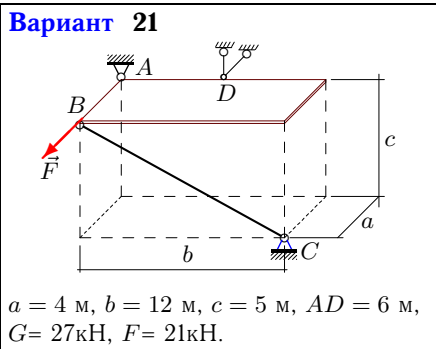
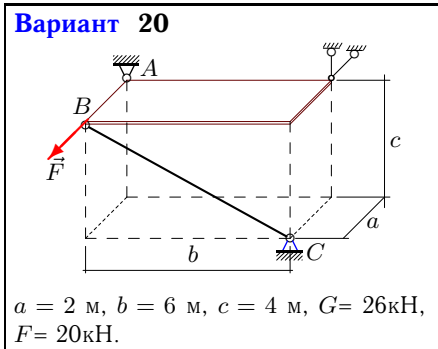
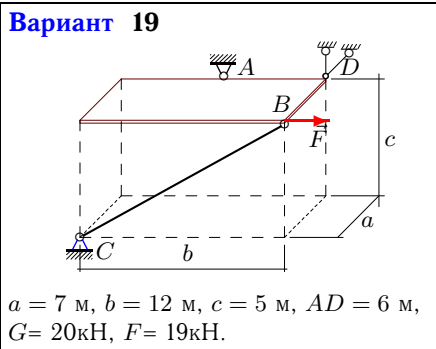
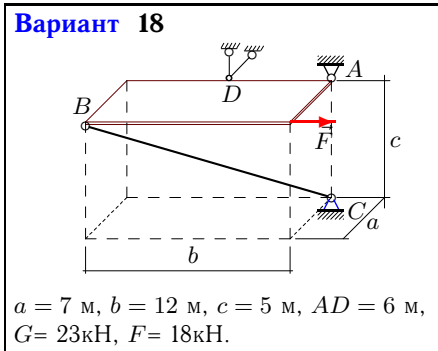
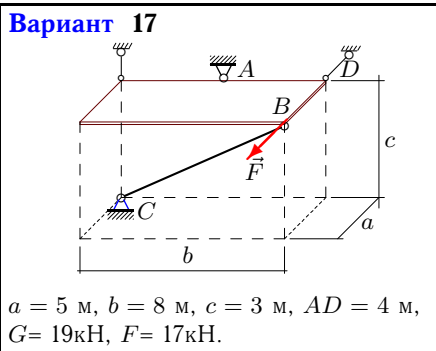
Тело на сферической и стержневых опорах

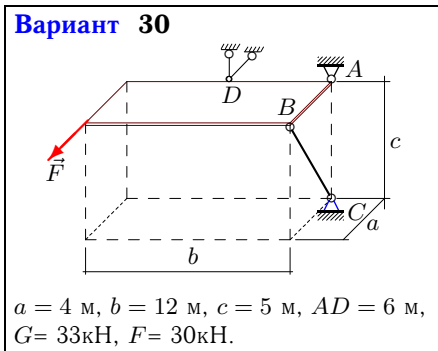
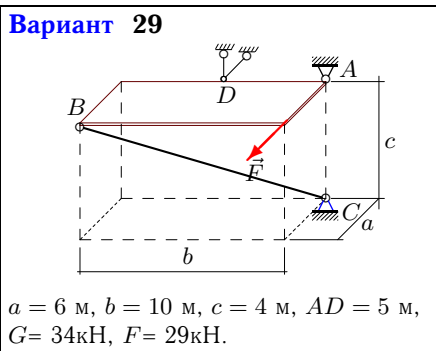
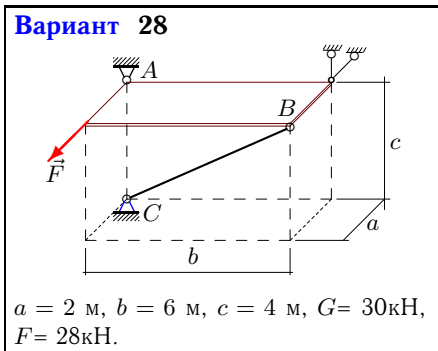
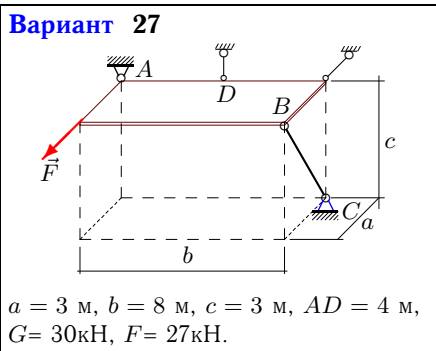
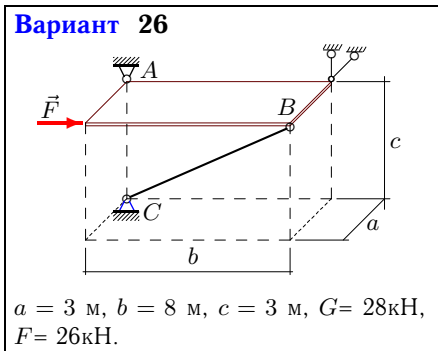
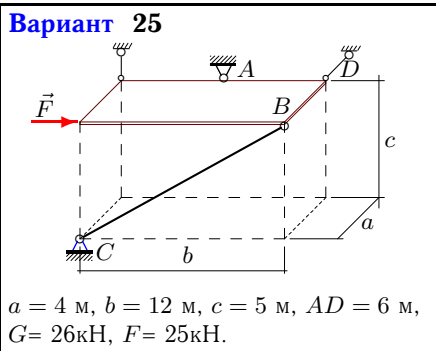
Горизонтальная однородная прямоугольная полка весом G имеет в точке A сферическую опору и поддерживается двумя невесомыми, шарнирно закрепленными по концам, стержнями (горизонтальным и вертикальным) и подпоркой BC . К полке приложена сила F , направленная вдоль одного из ее ребер. Определить реакции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

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<p>Вариант 1</p>  <p>$a = 2 \text{ м}, b = 6 \text{ м}, c = 4 \text{ м}, G = 4 \text{ кН}, F = 1 \text{ кН}.$</p>	<p>Вариант 2</p>  <p>$a = 4 \text{ м}, b = 12 \text{ м}, c = 5 \text{ м}, AD = 6 \text{ м}, G = 6 \text{ кН}, F = 2 \text{ кН}.$</p>
<p>Вариант 3</p>  <p>$a = 2 \text{ м}, b = 6 \text{ м}, c = 4 \text{ м}, AD = 3 \text{ м}, G = 4 \text{ кН}, F = 3 \text{ кН}.$</p>	<p>Вариант 4</p>  <p>$a = 4 \text{ м}, b = 12 \text{ м}, c = 5 \text{ м}, AD = 6 \text{ м}, G = 6 \text{ кН}, F = 4 \text{ кН}.$</p>
<p>Вариант 5</p>  <p>$a = 7 \text{ м}, b = 12 \text{ м}, c = 5 \text{ м}, AD = 6 \text{ м}, G = 7 \text{ кН}, F = 5 \text{ кН}.$</p>	<p>Вариант 6</p>  <p>$a = 2 \text{ м}, b = 6 \text{ м}, c = 4 \text{ м}, G = 9 \text{ кН}, F = 6 \text{ кН}.$</p>
<p>Вариант 7</p>  <p>$a = 4 \text{ м}, b = 12 \text{ м}, c = 5 \text{ м}, AD = 6 \text{ м}, G = 11 \text{ кН}, F = 7 \text{ кН}.$</p>	<p>Вариант 8</p>  <p>$a = 5 \text{ м}, b = 8 \text{ м}, c = 3 \text{ м}, AD = 4 \text{ м}, G = 14 \text{ кН}, F = 8 \text{ кН}.$</p>







Ответы

	H	V	X_A	Y_A	Z_A	S
1	-1.000	0.000	-1.000	0.000	2.000	-2.236
2	-6.133	0.000	3.733	-2.000	3.000	-3.842
3	-5.000	2.000	2.000	-3.000	0.000	-3.606
4	0.000	0.000	-6.400	-7.200	3.000	-8.161
5	5.833	0.000	-10.733	-13.400	3.500	-10.335
6	-6.000	4.500	-2.250	0.000	0.000	-5.031
7	11.400	5.500	-22.800	0.000	-0.000	-7.043
8	-19.667	14.000	11.667	18.667	-7.000	-19.936
9	0.417	-7.000	-12.083	9.667	14.000	-23.099
10	-14.167	16.000	14.167	11.333	-8.000	-22.784
11	9.600	0.000	-20.600	-14.400	6.000	-15.600
12	-46.500	0.000	23.250	0.000	7.500	-13.521
13	28.500	0.000	-41.500	23.750	9.500	-25.580
14	-0.000	8.500	-28.167	0.000	0.000	-16.521
15	0.000	18.000	-28.500	0.000	-9.000	-16.225
16	-24.400	10.500	0.000	25.200	-0.000	-28.563
17	-1.167	9.500	-31.667	-25.333	-0.000	-31.348
18	-21.000	-0.000	4.900	9.600	11.500	-33.959
19	50.167	-10.000	-50.167	-43.000	20.000	-26.000
20	-6.500	13.000	-13.500	19.500	0.000	-23.436
21	-21.600	27.000	0.600	32.400	-13.500	-35.100
22	-67.000	11.500	45.000	-30.667	-0.000	-32.752
23	-41.667	12.500	-2.167	-33.333	0.000	-41.248
24	-69.000	15.000	45.000	37.500	0.000	-40.389
25	37.467	13.000	-37.467	-56.200	0.000	-33.800
26	9.750	0.000	-23.750	-63.333	14.000	-42.258
27	-15.000	0.000	-27.000	0.000	15.000	-21.213
28	0.000	0.000	-35.500	-22.500	15.000	-28.062
29	0.000	0.000	-54.500	42.500	17.000	-52.398
30	-60.000	33.000	16.800	0.000	-16.500	-21.130