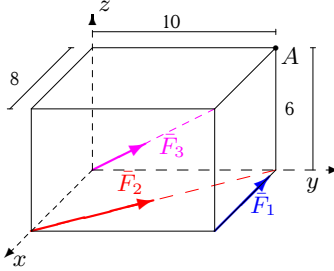
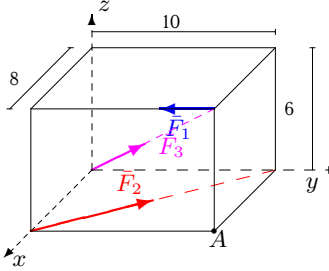
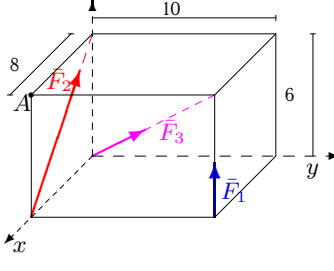
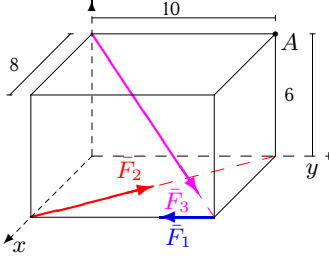
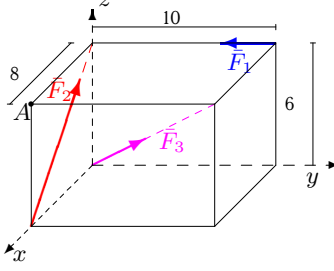
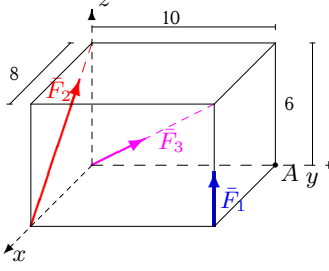
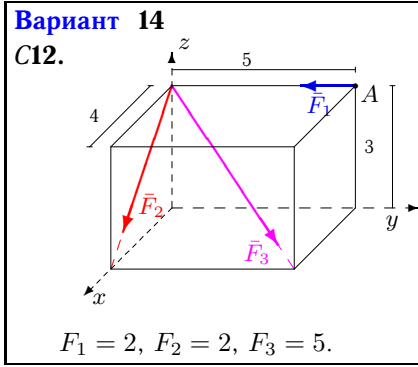
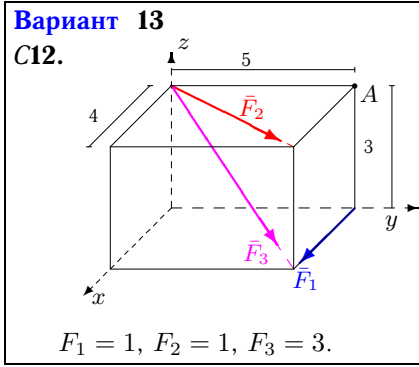
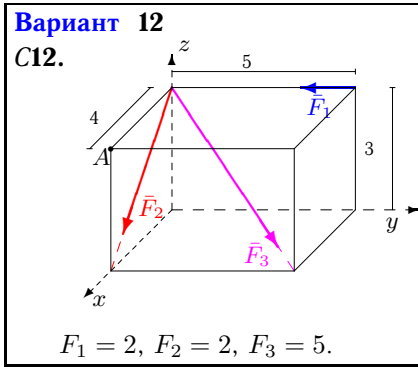
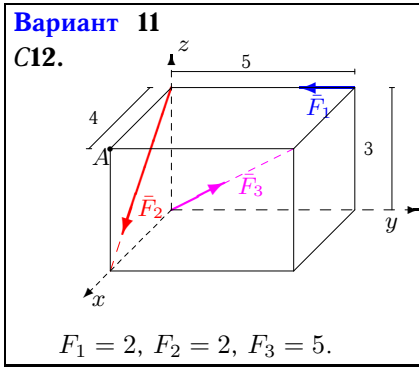
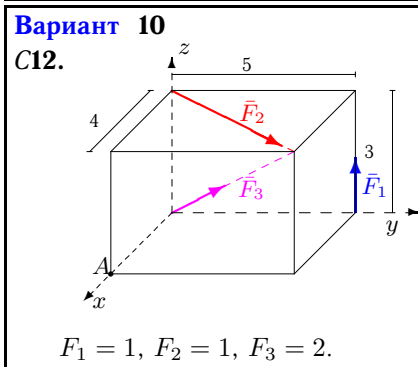
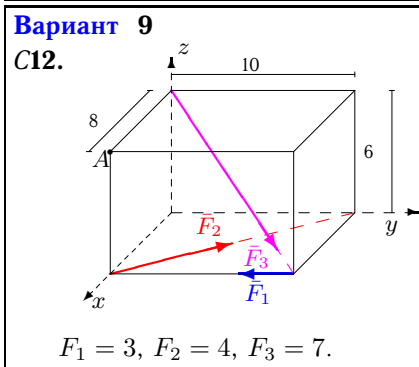
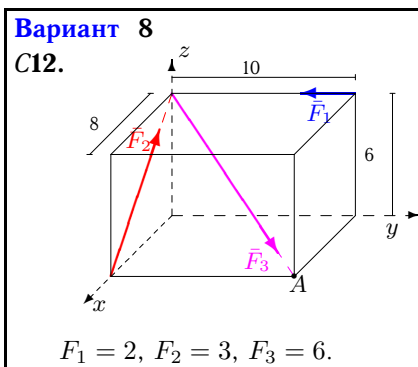
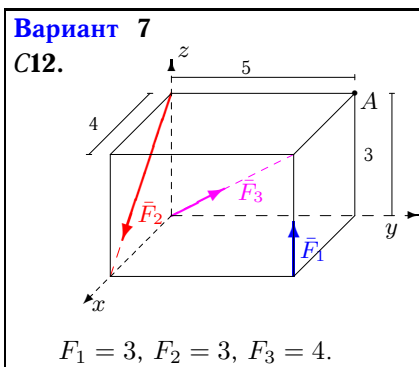


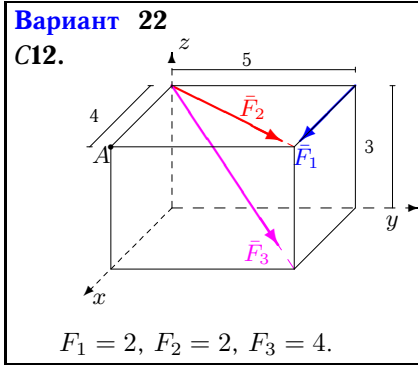
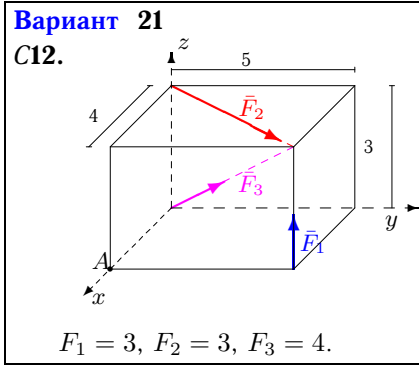
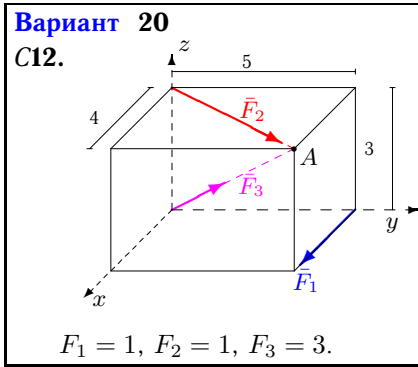
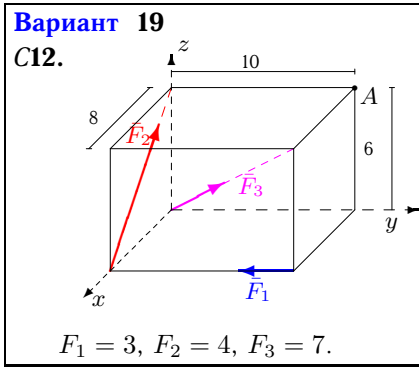
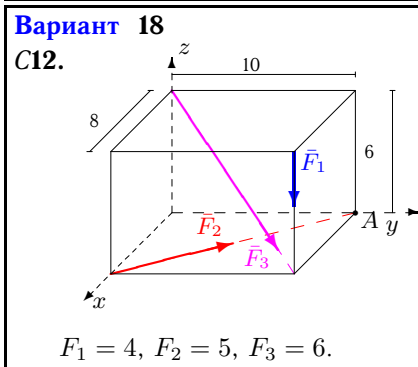
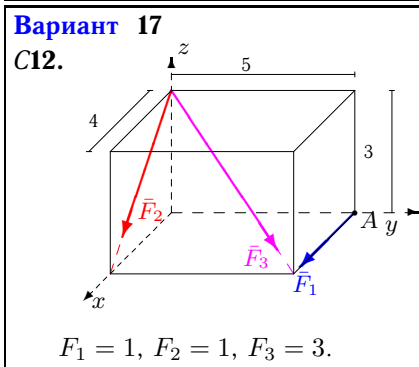
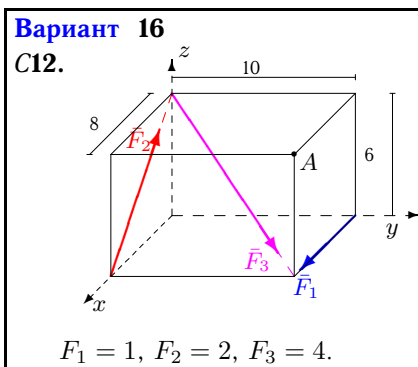
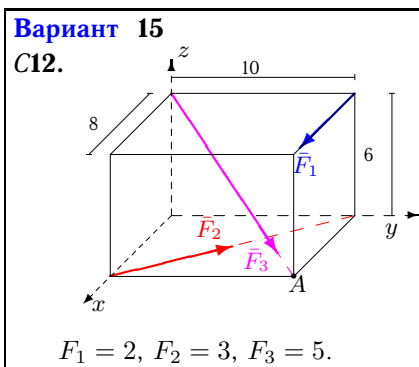
## Приведение системы сил к простейшему виду

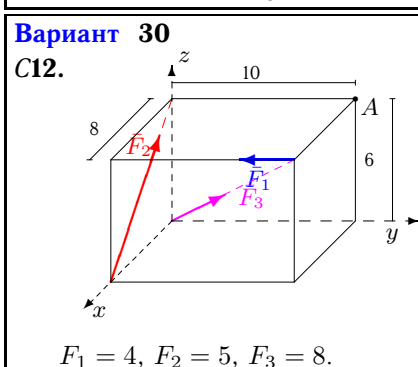
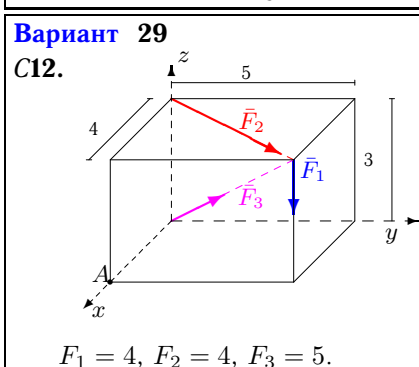
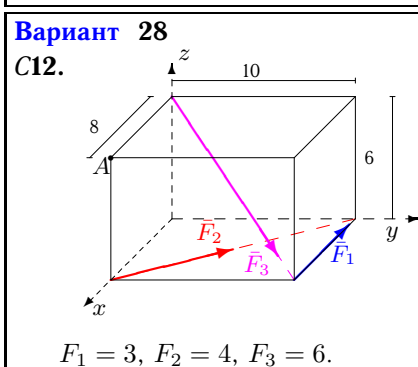
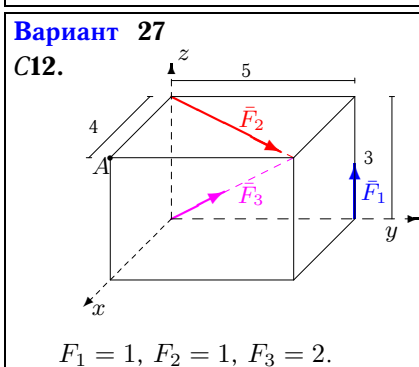
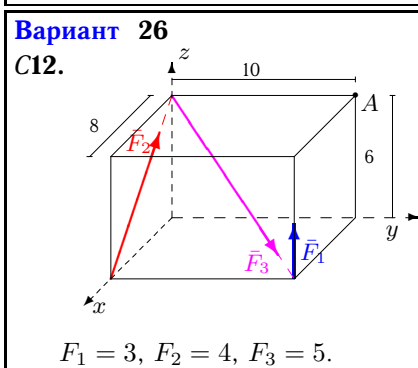
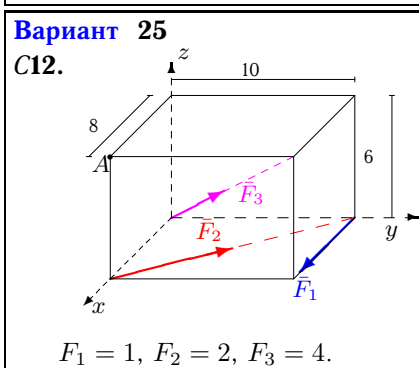
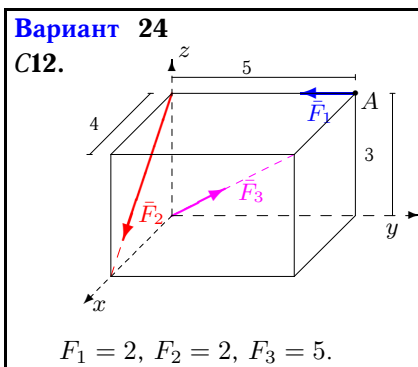
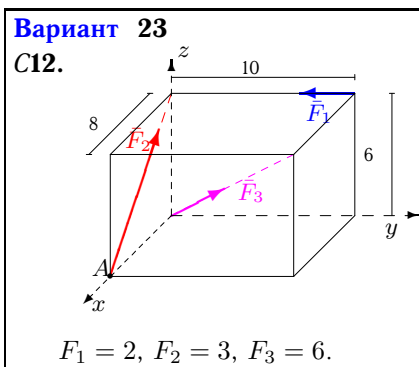
Систему трех сил, приложенных к вершинам параллелепипеда, привести к началу координат. Найти координаты точки пересечения центральной винтовой оси с плоскостью  $xy$ . Размеры на рисунках даны в м, силы — в Н.

*Кирсанов М.Н. Учебник. Теоретическая механика с. 111.*

<p><b>Вариант 1</b> С12.</p>  <p style="text-align: center;"><math>F_1 = 3, F_2 = 4, F_3 = 6.</math></p>	<p><b>Вариант 2</b> С12.</p>  <p style="text-align: center;"><math>F_1 = 4, F_2 = 5, F_3 = 8.</math></p>
<p><b>Вариант 3</b> С12.</p>  <p style="text-align: center;"><math>F_1 = 3, F_2 = 4, F_3 = 5.</math></p>	<p><b>Вариант 4</b> С12.</p>  <p style="text-align: center;"><math>F_1 = 3, F_2 = 4, F_3 = 7.</math></p>
<p><b>Вариант 5</b> С12.</p>  <p style="text-align: center;"><math>F_1 = 2, F_2 = 3, F_3 = 6.</math></p>	<p><b>Вариант 6</b> С12.</p>  <p style="text-align: center;"><math>F_1 = 3, F_2 = 4, F_3 = 5.</math></p>







Ответы

	$R_x$	$R_y$	$R_z$	$R$	$M_x$	$M_y$	$M_z$	$M$	$x_A$	$y_A$
1	-2.105	7.366	2.546	8.073	0.000	0.000	54.988	54.988	6.215	1.776
2	1.402	5.561	3.394	6.664	24.000	0.000	-0.765	24.012	1.146	6.782
3	-0.372	3.536	7.521	8.319	30.000	-43.200	0.000	52.595	4.631	3.872
4	1.461	5.073	-2.970	6.057	-29.698	23.759	0.988	38.045	4.545	10.995
5	0.994	2.243	4.346	4.990	12.000	-14.400	0.000	18.745	2.892	2.949
6	-0.372	3.536	7.521	8.319	30.000	-43.200	0.000	52.595	4.631	3.872
7	4.663	2.828	2.897	6.175	15.000	-4.800	0.000	15.749	3.100	2.799
8	0.994	2.243	-0.746	2.564	-13.456	5.965	0.000	14.719	8.000	18.047
9	1.461	5.073	-2.970	6.057	-29.698	23.759	0.988	38.045	4.545	10.995
10	1.756	2.195	1.849	3.364	2.657	1.874	0.000	3.252	-0.093	0.701
11	4.428	1.536	0.921	4.777	6.000	4.800	0.000	7.684	-2.731	-0.637
12	4.428	1.536	-3.321	5.745	-4.607	13.285	0.000	14.061	4.000	1.387
13	3.322	2.902	-1.273	4.591	-8.707	6.965	-5.000	12.220	5.726	6.550
14	4.428	1.536	-3.321	5.745	-4.607	13.285	0.000	14.061	4.000	1.387
15	2.954	5.878	-2.121	6.912	-21.213	28.971	-1.259	35.929	7.261	13.215
16	1.663	2.828	-0.497	3.318	-16.971	3.976	-10.000	20.095	14.201	30.497
17	3.497	2.121	-1.873	4.499	-6.364	7.491	-5.000	11.028	3.832	3.675
18	0.271	8.147	-6.546	10.454	-65.456	52.365	31.235	89.455	5.672	10.077
19	0.760	1.950	5.370	5.763	0.000	-19.200	-24.000	30.735	1.757	0.708
20	3.322	2.902	1.273	4.591	-2.343	1.874	-5.000	5.831	-2.414	-0.762
21	4.137	5.171	4.697	8.119	7.972	-6.378	0.000	10.209	1.358	1.697
22	5.512	4.390	-1.697	7.248	-13.170	16.536	-10.000	23.386	8.909	8.810
23	0.994	2.243	4.346	4.990	12.000	-14.400	0.000	18.745	2.892	2.949
24	4.428	1.536	0.921	4.777	6.000	4.800	0.000	7.684	-2.731	-0.637
25	2.013	4.390	1.697	5.119	0.000	0.000	2.494	2.494	0.418	-0.192
26	-0.372	3.536	3.279	4.836	8.787	-26.229	0.000	27.662	3.574	2.215
27	1.756	2.195	1.849	3.364	2.657	1.874	0.000	3.252	-0.093	0.701
28	-2.105	7.366	-2.546	8.073	-25.456	20.365	54.988	63.925	5.176	9.193
29	5.327	6.659	-1.879	8.732	-29.370	23.496	0.000	37.612	12.507	15.634
30	0.525	1.657	6.394	6.626	24.000	-24.000	-32.000	46.648	2.386	4.187