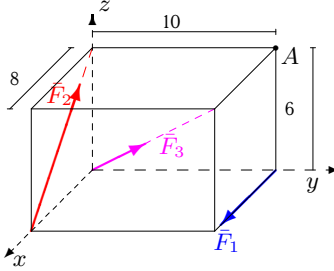
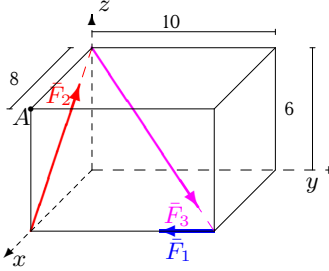
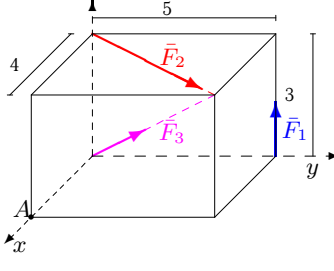
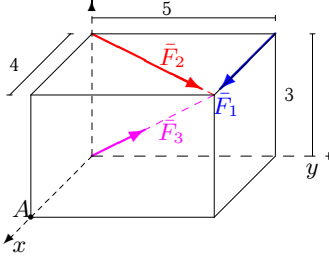
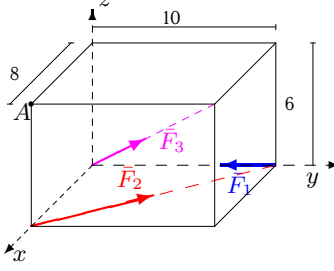
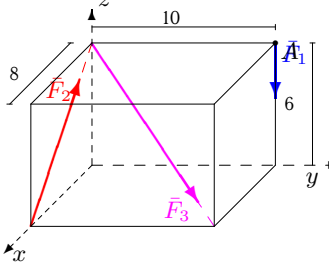
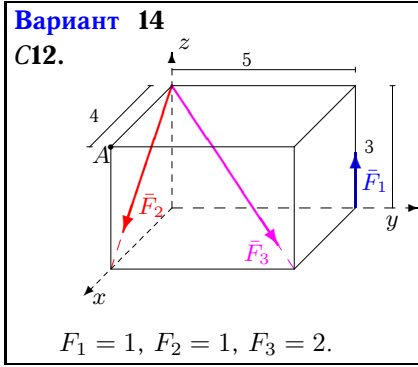
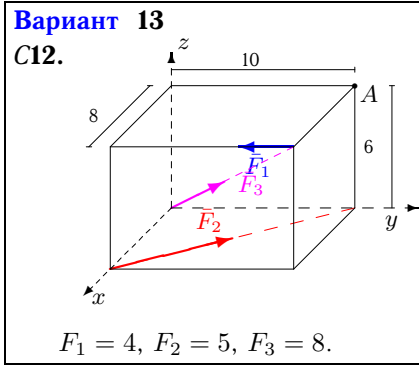
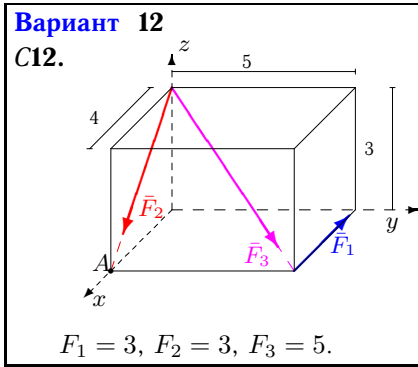
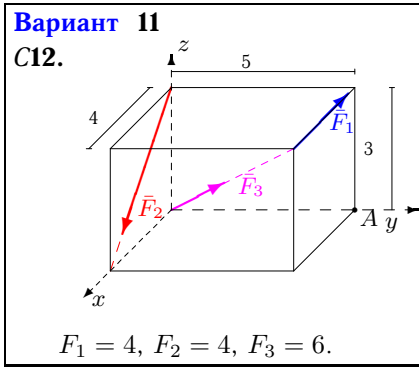
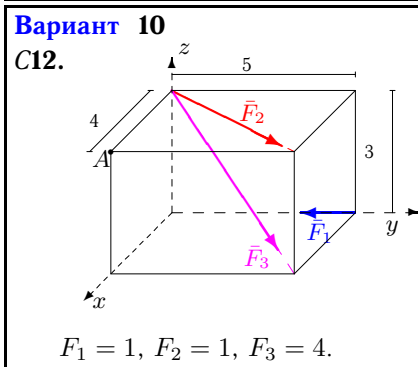
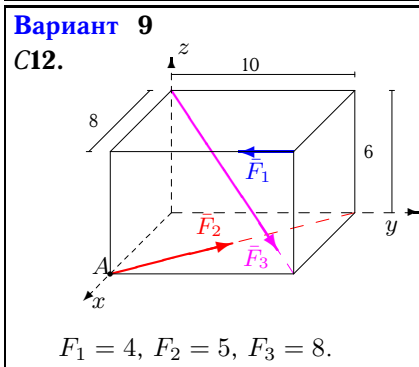
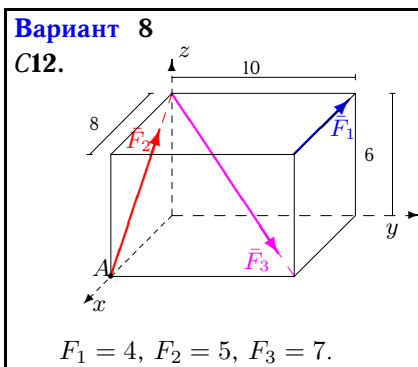
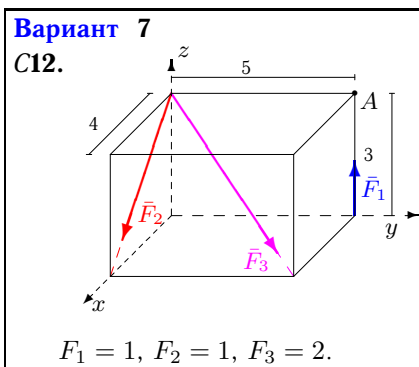


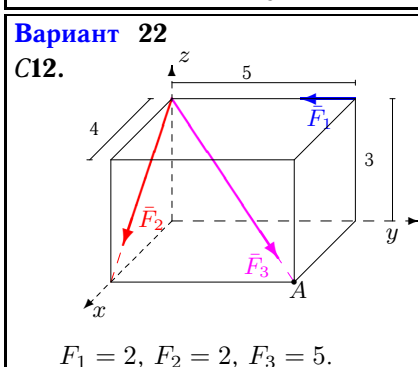
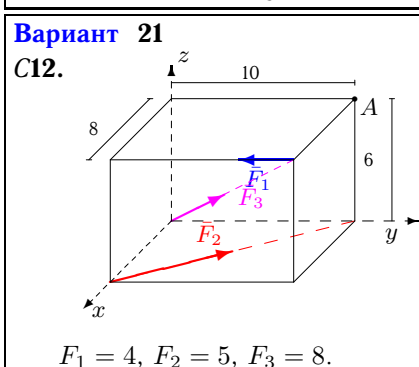
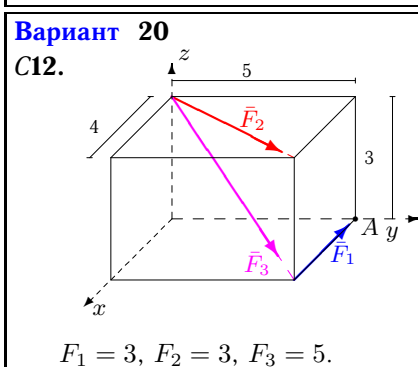
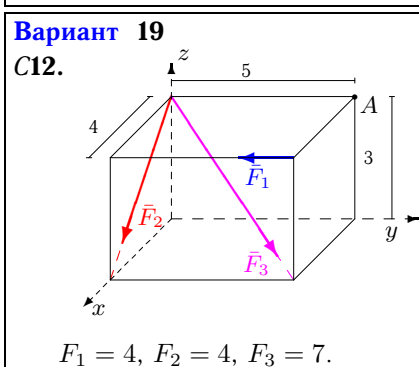
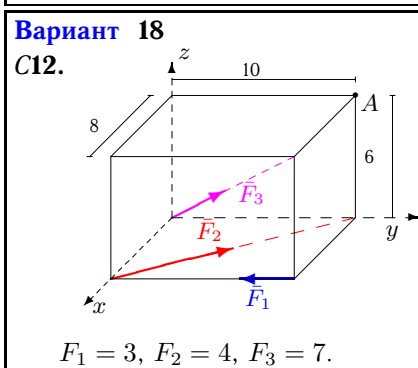
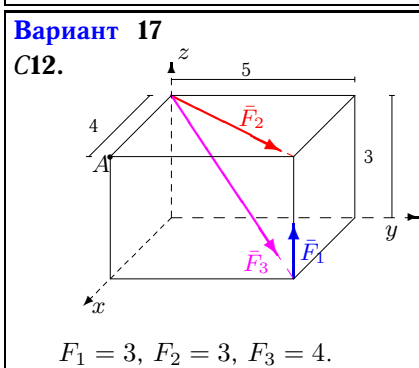
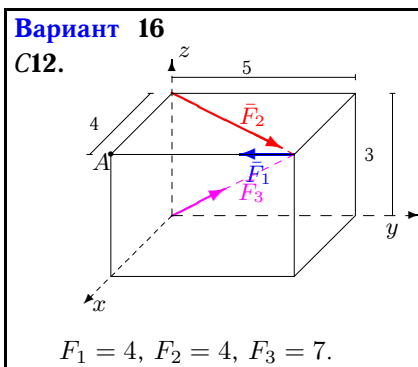
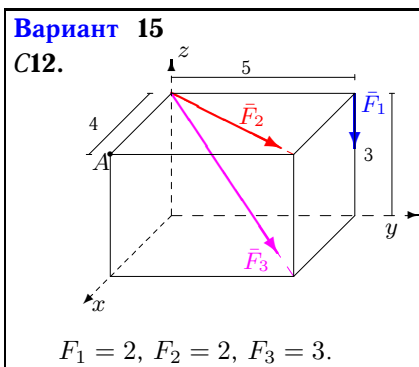
## Приведение системы сил к простейшему виду

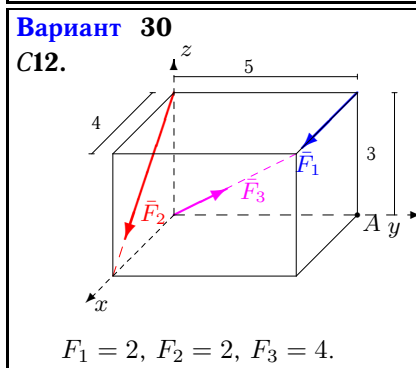
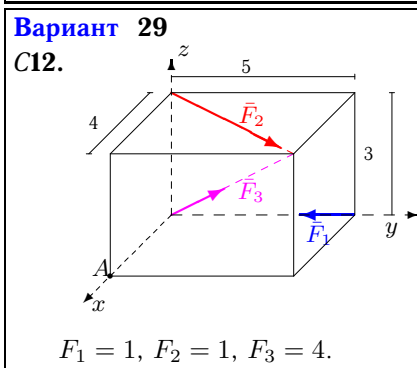
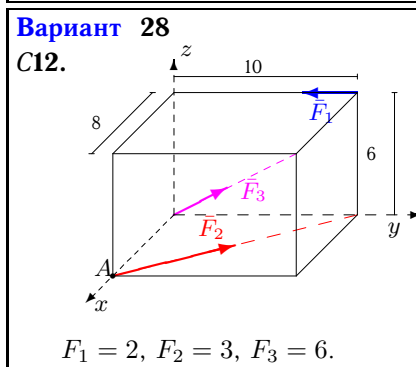
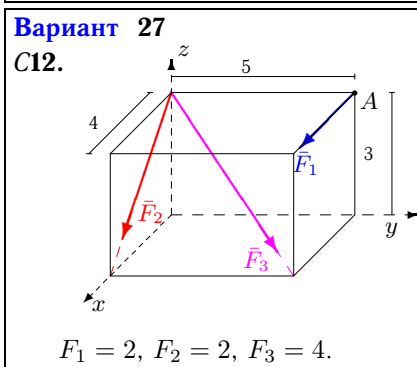
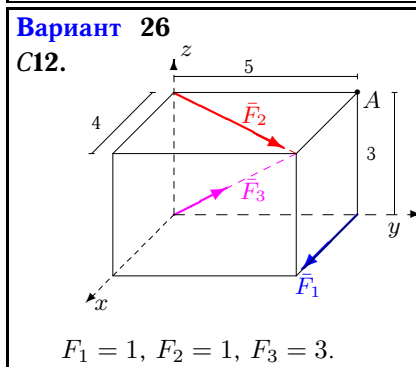
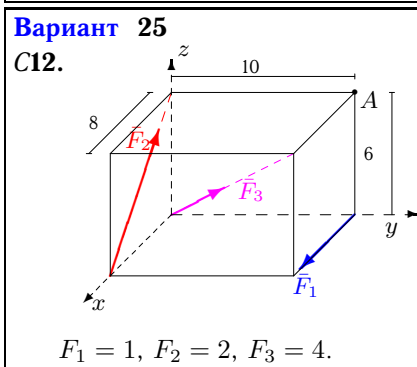
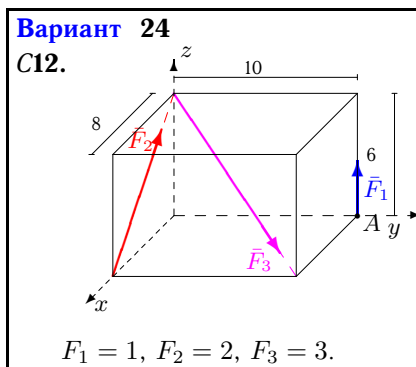
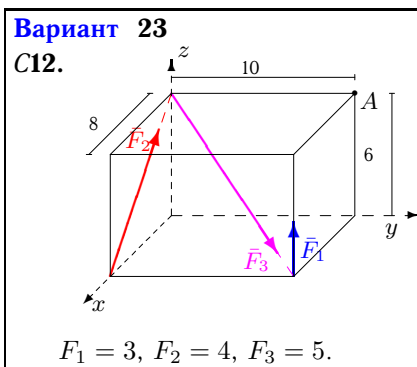
Систему трех сил, приложенных к вершинам параллелепипеда, привести к началу координат. Найти координаты точки пересечения центральной винтовой оси с плоскостью  $xy$ . Размеры на рисунках даны в м, силы — в Н.

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

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







Ответы

	$R_x$	$R_y$	$R_z$	$R$	$M_x$	$M_y$	$M_z$	$M$	$x_A$	$y_A$
1	1.663	2.828	2.897	4.377	0.000	-9.600	-10.000	13.862	0.454	1.681
2	0.760	1.950	-0.570	2.169	-29.698	4.559	-24.000	38.455	8.000	52.116
3	1.756	2.195	1.849	3.364	2.657	1.874	0.000	3.252	-0.093	0.701
4	5.512	4.390	1.697	7.248	-4.685	9.748	-10.000	14.730	-5.744	-2.761
5	1.579	4.097	2.121	4.877	0.000	0.000	12.494	12.494	2.153	-0.830
6	-0.137	2.828	-1.897	3.408	-36.971	-0.824	0.000	36.980	-0.786	19.471
7	1.931	1.414	-0.449	2.435	0.757	5.794	0.000	5.843	7.785	5.322
8	-4.040	4.950	0.030	6.389	-29.698	-24.241	40.000	55.404	808.830	-981.016
9	1.402	5.561	-3.394	6.664	-9.941	27.153	-0.765	28.926	2.848	4.228
10	2.887	2.609	-1.697	4.246	-10.828	8.662	0.000	13.866	5.843	5.563
11	2.594	4.243	0.146	4.975	0.000	-2.400	20.000	20.143	7.925	5.234
12	2.228	3.536	-3.921	5.731	-10.607	15.685	15.000	24.156	4.741	2.238
13	1.402	5.561	3.394	6.664	24.000	0.000	-0.765	24.012	1.146	6.782
14	1.931	1.414	-0.449	2.435	0.757	5.794	0.000	5.843	7.785	5.322
15	2.946	3.683	-3.273	5.741	-21.049	8.839	0.000	22.830	3.707	5.627
16	6.459	4.073	2.970	8.193	2.630	7.496	-16.000	17.864	-2.524	0.885
17	4.137	5.171	1.303	6.749	-0.513	0.410	0.000	0.657	-0.315	-0.394
18	1.461	5.073	2.970	6.057	0.000	0.000	0.988	0.988	0.137	-0.039
19	7.160	0.950	-5.370	9.000	-2.849	21.479	-16.000	26.935	3.812	1.945
20	1.703	5.878	-2.121	6.477	-17.634	14.108	15.000	27.111	5.258	8.716
21	1.402	5.561	3.394	6.664	24.000	0.000	-0.765	24.012	1.146	6.782
22	4.428	1.536	-3.321	5.745	-4.607	13.285	0.000	14.061	4.000	1.387
23	-0.372	3.536	3.279	4.836	8.787	-26.229	0.000	27.662	3.574	2.215
24	0.097	2.121	0.927	2.317	-2.728	0.582	0.000	2.789	-0.214	-2.961
25	1.663	2.828	2.897	4.377	0.000	-9.600	-10.000	13.862	0.454	1.681
26	3.322	2.902	1.273	4.591	-2.343	1.874	-5.000	5.831	-2.414	-0.762
27	5.863	2.828	-2.897	7.125	-8.485	17.588	-10.000	21.940	5.514	4.084
28	1.520	4.585	2.546	5.460	12.000	0.000	18.741	22.254	3.984	3.393
29	2.887	2.609	1.697	4.246	-2.343	1.874	0.000	3.000	-1.264	-1.204
30	5.863	2.828	0.497	6.528	0.000	10.800	-10.000	14.719	-18.313	-7.078