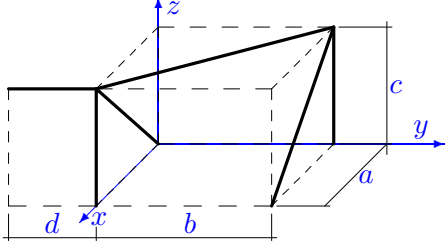
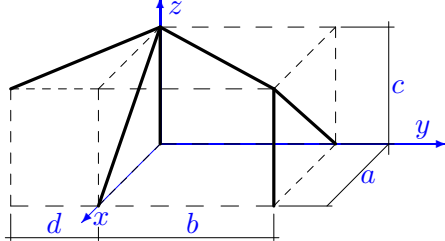
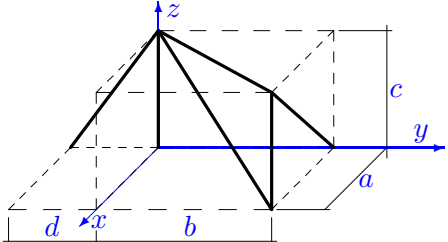
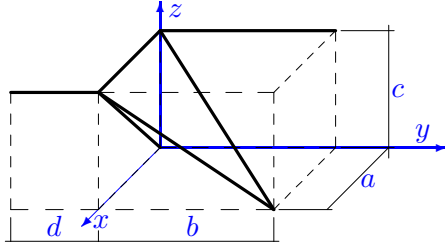
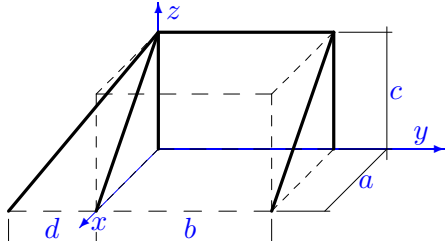
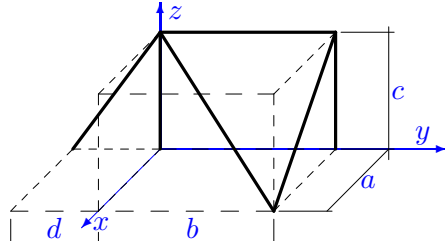
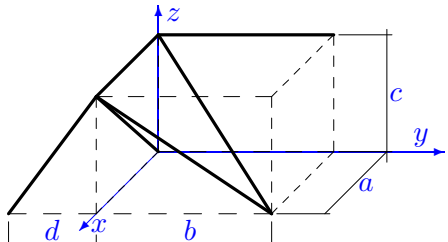
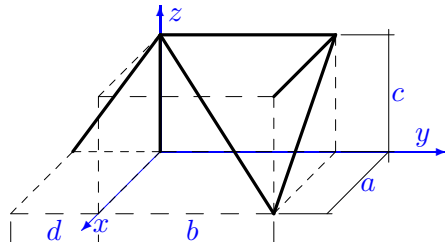
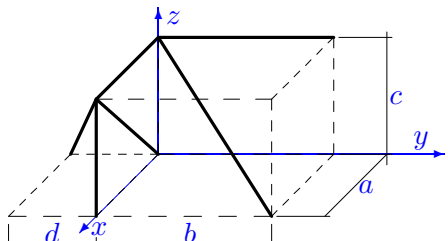
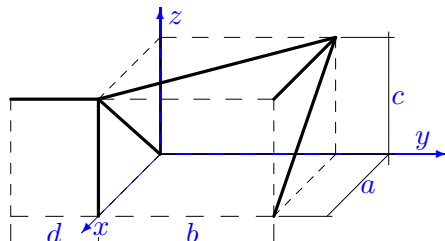


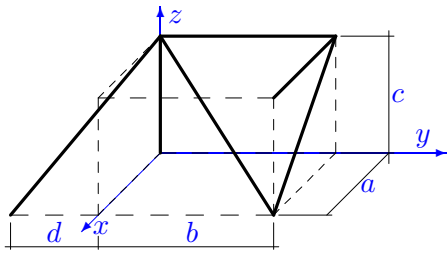
Центр тяжести пространственной стержневой фигуры

Найти координаты центра тяжести пространственной фигуры, состоящей из шести однородных стержней. Размеры даны в метрах.

Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.:ФИЗМАТЛИТ, 2002.– 384 с. (с. 122.)

<p>Задача 21.1</p>  <p style="margin-left: 100px;"> $a = 5,$ $b = 4,$ $c = 3,$ $d = 2.$ </p> <p style="font-size: small; margin-top: 5px;">21.3</p>	<p>Задача 21.2</p>  <p style="margin-left: 100px;"> $a = 3,$ $b = 4,$ $c = 3,$ $d = 1.$ </p> <p style="font-size: small; margin-top: 5px;">21.3</p>
<p>Задача 21.3</p>  <p style="margin-left: 100px;"> $a = 3,$ $b = 4,$ $c = 3,$ $d = 1.$ </p> <p style="font-size: small; margin-top: 5px;">21.3</p>	<p>Задача 21.4</p>  <p style="margin-left: 100px;"> $a = 4,$ $b = 6,$ $c = 5,$ $d = 4.$ </p> <p style="font-size: small; margin-top: 5px;">21.3</p>
<p>Задача 21.5</p>  <p style="margin-left: 100px;"> $a = 2,$ $b = 3,$ $c = 4,$ $d = 2.$ </p> <p style="font-size: small; margin-top: 5px;">21.3</p>	<p>Задача 21.6</p>  <p style="margin-left: 100px;"> $a = 3,$ $b = 4,$ $c = 3,$ $d = 1.$ </p> <p style="font-size: small; margin-top: 5px;">21.3</p>
<p>Задача 21.7</p>  <p style="margin-left: 100px;"> $a = 3,$ $b = 4,$ $c = 3,$ $d = 2.$ </p> <p style="font-size: small; margin-top: 5px;">21.3</p>	<p>Задача 21.8</p>  <p style="margin-left: 100px;"> $a = 5,$ $b = 4,$ $c = 3,$ $d = 1.$ </p> <p style="font-size: small; margin-top: 5px;">21.3</p>
<p>Задача 21.9</p>  <p style="margin-left: 100px;"> $a = 2,$ $b = 3,$ $c = 4,$ $d = 3.$ </p> <p style="font-size: small; margin-top: 5px;">21.3</p>	<p>Задача 21.10</p>  <p style="margin-left: 100px;"> $a = 7,$ $b = 6,$ $c = 5,$ $d = 4.$ </p> <p style="font-size: small; margin-top: 5px;">21.3</p>

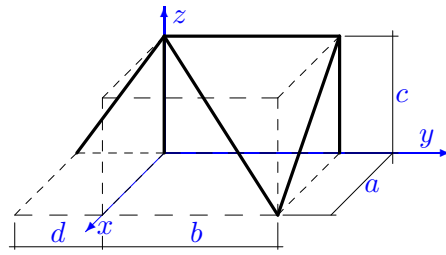
Задача 21.11



$$\begin{aligned} a &= 2, \\ b &= 3, \\ c &= 4, \\ d &= 2. \end{aligned}$$

21.3

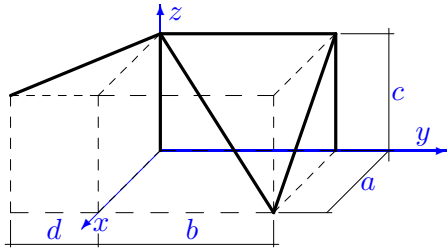
Задача 21.12



$$\begin{aligned} a &= 4, \\ b &= 6, \\ c &= 5, \\ d &= 3. \end{aligned}$$

21.3

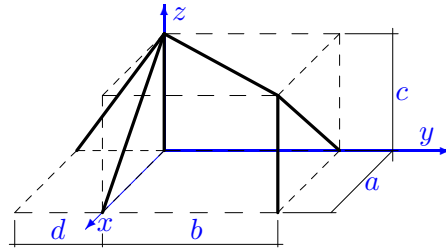
Задача 21.13



$$\begin{aligned} a &= 7, \\ b &= 6, \\ c &= 5, \\ d &= 3. \end{aligned}$$

21.3

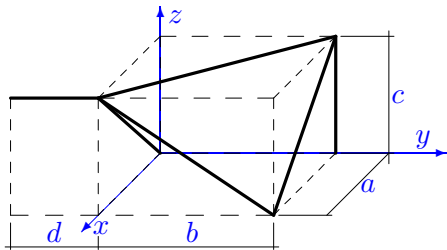
Задача 21.14



$$\begin{aligned} a &= 5, \\ b &= 4, \\ c &= 3, \\ d &= 1. \end{aligned}$$

21.3

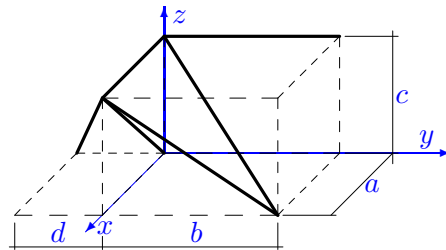
Задача 21.15



$$\begin{aligned} a &= 2, \\ b &= 3, \\ c &= 4, \\ d &= 3. \end{aligned}$$

21.3

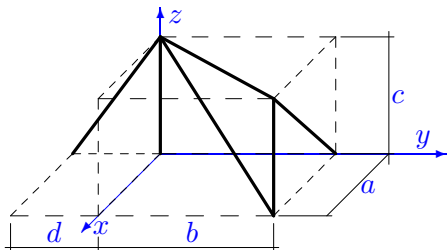
Задача 21.16



$$\begin{aligned} a &= 4, \\ b &= 6, \\ c &= 5, \\ d &= 4. \end{aligned}$$

21.3

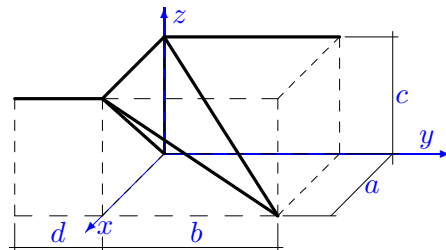
Задача 21.17



$$\begin{aligned} a &= 7, \\ b &= 6, \\ c &= 5, \\ d &= 3. \end{aligned}$$

21.3

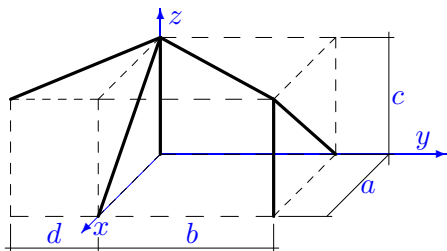
Задача 21.18



$$\begin{aligned} a &= 5, \\ b &= 4, \\ c &= 3, \\ d &= 2. \end{aligned}$$

21.3

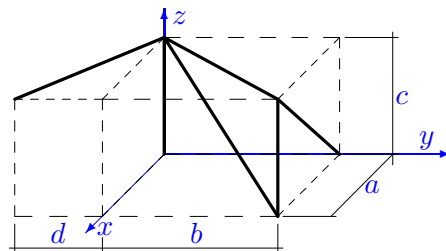
Задача 21.19



$$\begin{aligned} a &= 5, \\ b &= 4, \\ c &= 3, \\ d &= 1. \end{aligned}$$

21.3

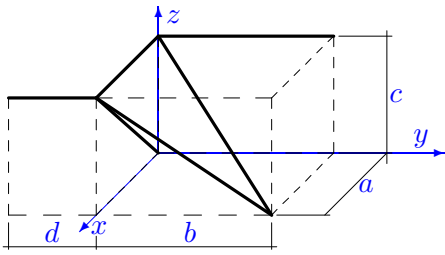
Задача 21.20



$$\begin{aligned} a &= 6, \\ b &= 5, \\ c &= 4, \\ d &= 2. \end{aligned}$$

21.3

Задача 21.21



$$a = 4,$$

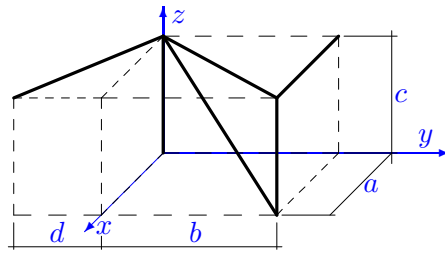
$$b = 6,$$

$$c = 5,$$

$$d = 4.$$

21.3

Задача 21.22



$$a = 5,$$

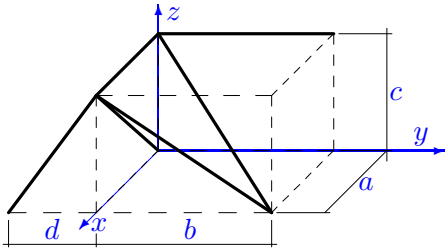
$$b = 4,$$

$$c = 3,$$

$$d = 1.$$

21.3

Задача 21.23



$$a = 5,$$

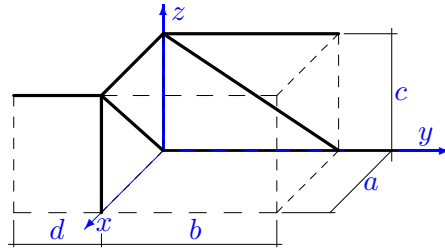
$$b = 4,$$

$$c = 3,$$

$$d = 2.$$

21.3

Задача 21.24



$$a = 7,$$

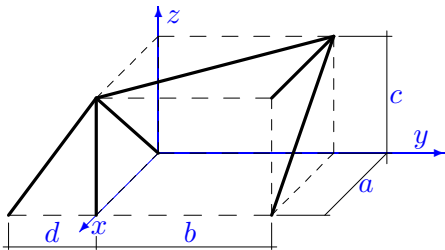
$$b = 6,$$

$$c = 5,$$

$$d = 4.$$

21.3

Задача 21.25



$$a = 2,$$

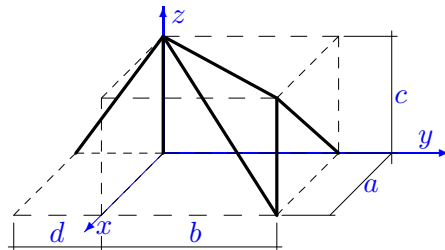
$$b = 3,$$

$$c = 4,$$

$$d = 3.$$

21.3

Задача 21.26



$$a = 3,$$

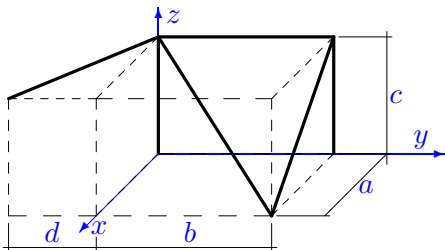
$$b = 4,$$

$$c = 3,$$

$$d = 1.$$

21.3

Задача 21.27



$$a = 5,$$

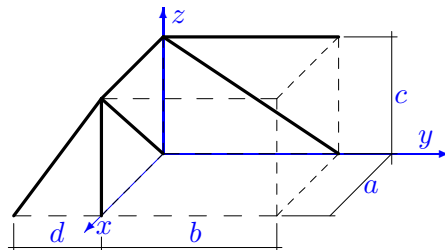
$$b = 4,$$

$$c = 3,$$

$$d = 1.$$

21.3

Задача 21.28



$$a = 5,$$

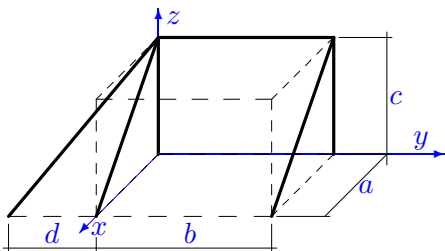
$$b = 4,$$

$$c = 3,$$

$$d = 2.$$

21.3

Задача 21.29



$$a = 3,$$

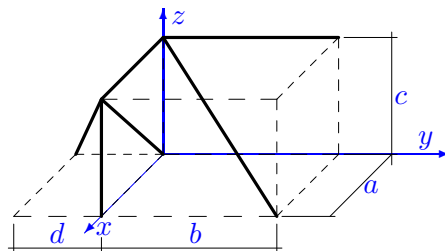
$$b = 4,$$

$$c = 3,$$

$$d = 1.$$

21.3

Задача 21.30



$$a = 7,$$

$$b = 6,$$

$$c = 5,$$

$$d = 4.$$

21.3

Центр тяжести пространственной стержневой фигуры

	L	x_c	y_c	z_c
1	26.065	2.692	1.770	1.984
2	22.648	1.500	1.651	2.041
3	24.236	1.304	2.024	1.809
4	36.988	2.314	1.616	3.446
5	24.843	0.557	1.007	2.242
6	23.236	0.650	2.025	1.758
7	25.679	1.769	1.015	1.909
8	28.064	1.595	2.276	1.981
9	24.242	1.041	0.186	2.412
10	42.424	4.243	2.670	3.692
11	23.756	0.705	1.141	2.421
12	37.009	0.820	2.810	2.905
13	42.706	2.189	2.802	3.297
14	27.227	2.210	1.710	1.853
15	24.550	1.163	1.378	2.538
16	40.538	2.089	1.299	3.117
17	44.141	3.038	2.990	3.022
18	28.902	2.759	1.043	2.071
19	29.164	2.500	1.563	2.092
20	38.121	3.000	2.392	2.742
21	36.988	2.314	1.616	3.446
22	29.573	2.500	1.907	2.337
23	30.508	2.877	0.935	1.943
24	38.413	3.062	0.870	3.606
25	23.550	1.382	0.736	2.476
26	24.236	1.304	2.024	1.809
27	28.001	1.607	1.961	1.987
28	26.437	2.274	0.544	2.011
29	22.844	0.843	1.523	1.763
30	46.577	3.425	0.655	3.198