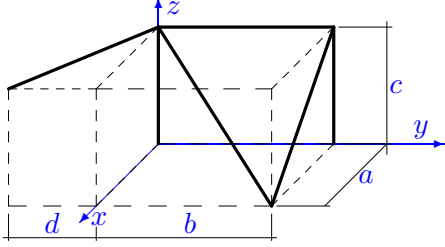
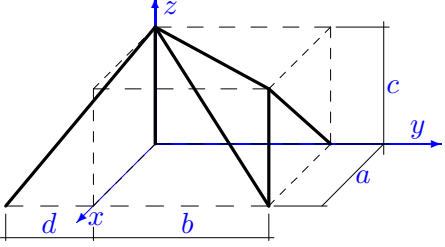
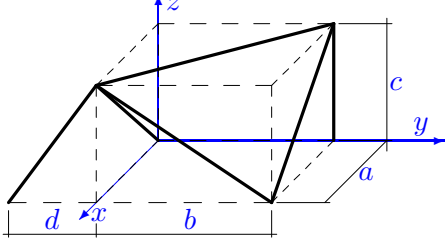
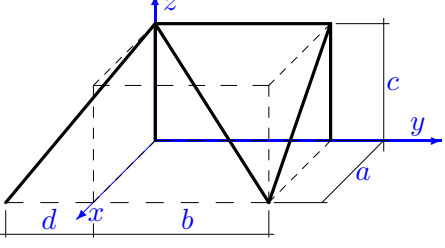
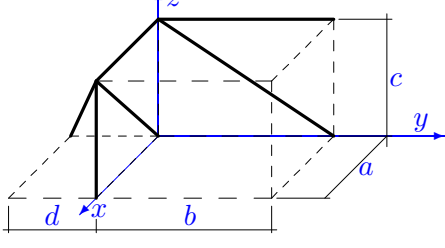
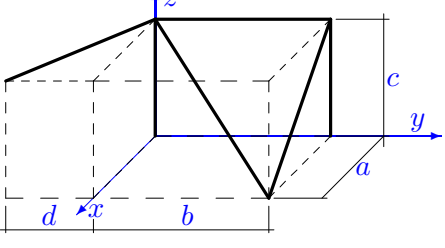
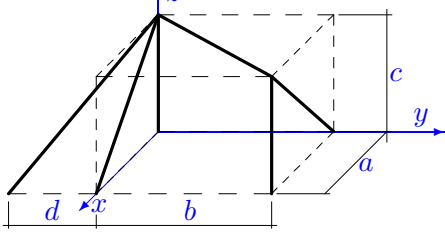
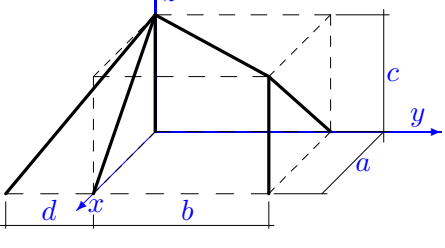
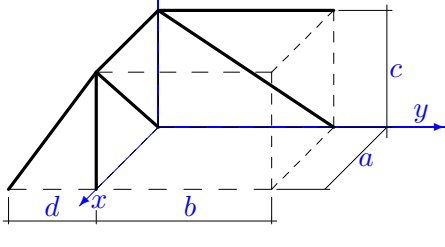
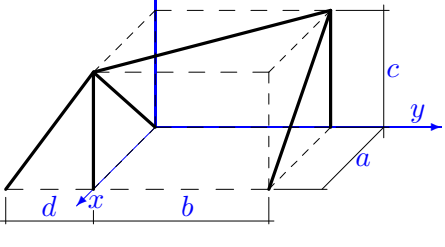


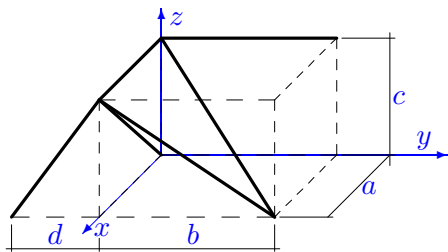
# Центр тяжести пространственной стержневой фигуры

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

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

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

Задача 21.11



$$a = 5,$$

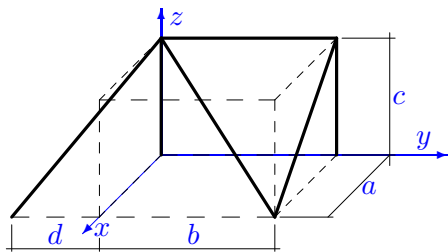
$$b = 4,$$

$$c = 3,$$

$$d = 2.$$

21.2

Задача 21.12



$$a = 5,$$

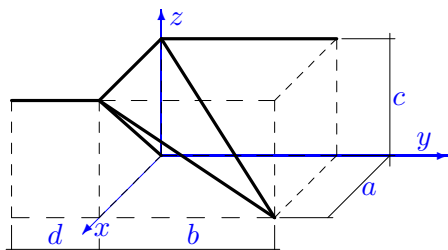
$$b = 4,$$

$$c = 3,$$

$$d = 1.$$

21.2

Задача 21.13



$$a = 2,$$

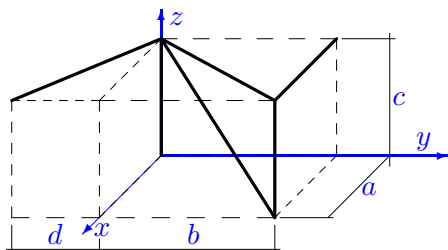
$$b = 3,$$

$$c = 4,$$

$$d = 3.$$

21.2

Задача 21.14



$$a = 6,$$

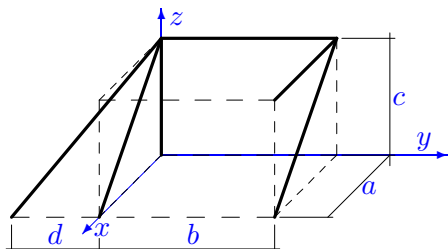
$$b = 5,$$

$$c = 4,$$

$$d = 2.$$

21.2

Задача 21.15



$$a = 6,$$

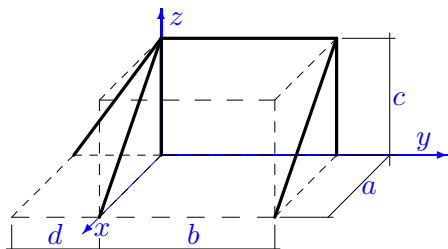
$$b = 5,$$

$$c = 4,$$

$$d = 2.$$

21.2

Задача 21.16



$$a = 4,$$

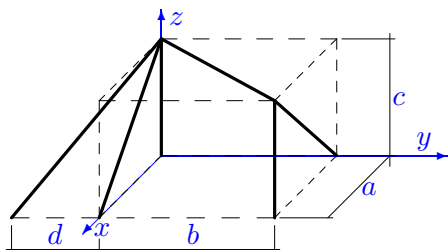
$$b = 6,$$

$$c = 5,$$

$$d = 3.$$

21.2

Задача 21.17



$$a = 2,$$

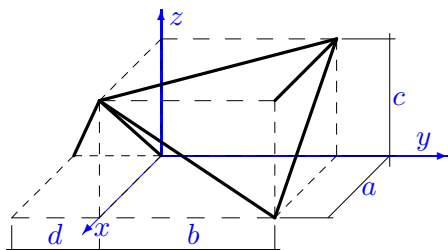
$$b = 3,$$

$$c = 4,$$

$$d = 2.$$

21.2

Задача 21.18



$$a = 4,$$

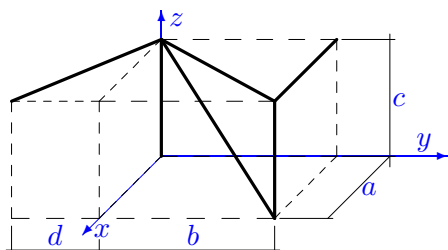
$$b = 6,$$

$$c = 5,$$

$$d = 4.$$

21.2

Задача 21.19



$$a = 4,$$

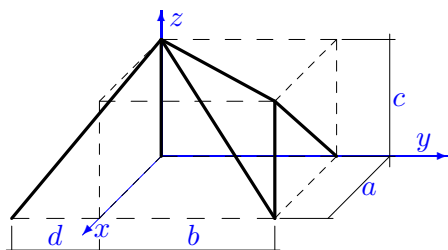
$$b = 6,$$

$$c = 5,$$

$$d = 3.$$

21.2

Задача 21.20



$$a = 7,$$

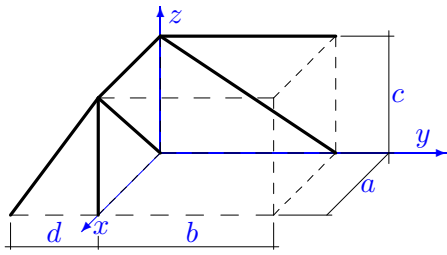
$$b = 6,$$

$$c = 5,$$

$$d = 3.$$

21.2

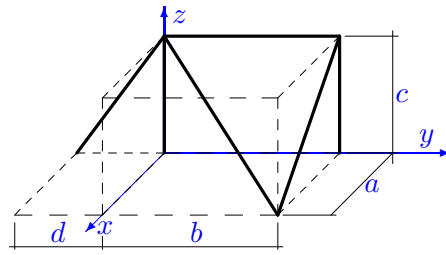
Задача 21.21



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

21.2

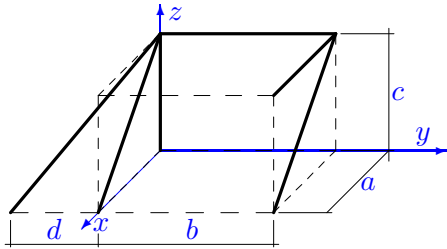
Задача 21.22



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

21.2

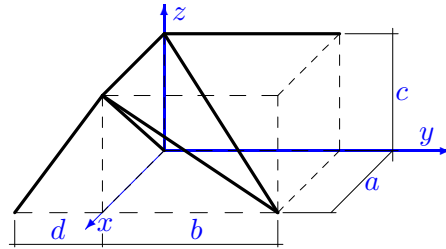
Задача 21.23



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

21.2

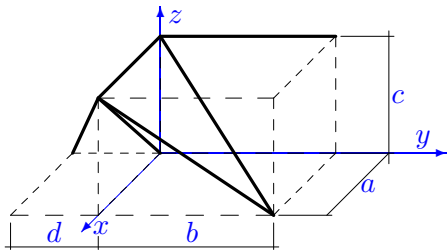
Задача 21.24



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

21.2

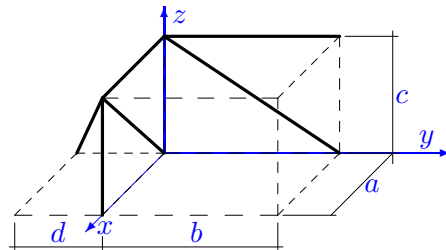
Задача 21.25



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

21.2

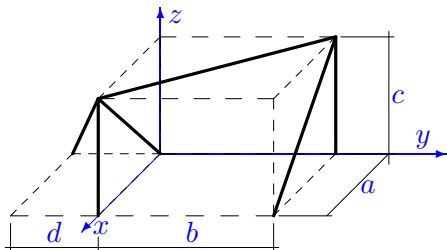
Задача 21.26



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

21.2

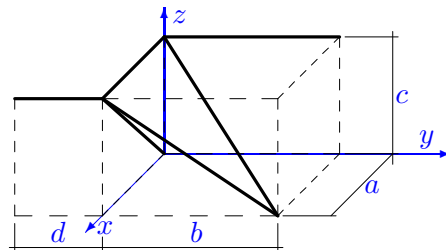
Задача 21.27



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

21.2

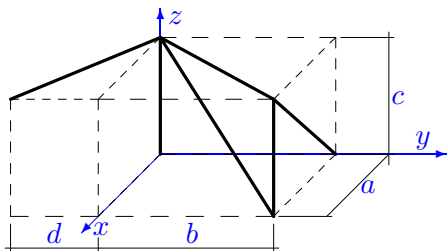
Задача 21.28



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

21.2

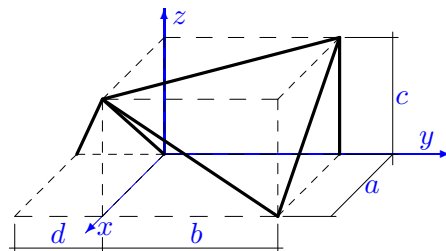
Задача 21.29



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

21.2

Задача 21.30



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

21.2

**Центр тяжести пространственной стержневой фигуры**

	$L$	$x_c$	$y_c$	$z_c$
1	28.001	1.607	1.961	1.987
2	26.362	1.000	1.290	2.274
3	39.231	2.470	2.566	2.960
4	36.469	1.931	2.276	2.274
5	23.857	0.832	0.164	2.419
6	23.236	0.854	2.025	1.962
7	23.844	1.500	1.543	1.815
8	45.535	3.500	2.100	3.006
9	26.437	2.274	0.544	2.011
10	25.550	1.196	0.913	2.282
11	30.508	2.877	0.935	1.943
12	28.818	1.632	1.891	1.708
13	22.857	1.219	0.682	2.700
14	36.910	3.000	2.307	3.091
15	36.906	2.268	1.926	2.596
16	34.637	0.739	2.242	2.933
17	25.449	1.000	1.019	2.283
18	39.377	2.397	2.346	3.212
19	34.986	2.000	2.700	3.658
20	47.420	3.500	2.680	2.986
21	22.848	1.343	0.630	1.960
22	40.921	1.633	2.989	2.867
23	22.843	0.694	0.833	2.438
24	39.391	2.417	1.395	3.135
25	33.066	2.576	0.786	1.908
26	36.763	1.521	0.716	3.180
27	30.229	2.500	1.388	1.818
28	36.389	3.363	1.263	2.769
29	38.121	3.000	2.392	2.742
30	40.377	2.139	2.437	2.946