

# Центр тяжести тела, составленного из пластин

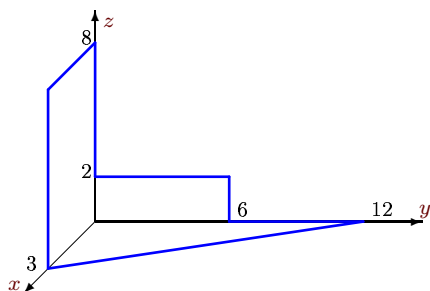
Найти координаты центра тяжести пространственной фигуры, состоящей из трех однородных пластин. Размеры даны в метрах.

Кирсанов М.Н. Теоретическая механика. Сборник задач – М.: Инфра-М, 2014. — 430 с. (с.135)

Кирсанов М.Н. Решения задач по теоретической механике. – М.: Инфра-М, 2015. — 216 с. (с.78)

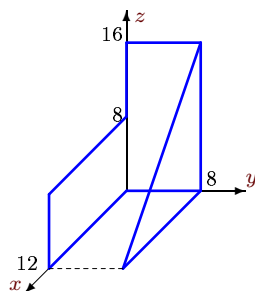
Задача S-19.1.

8



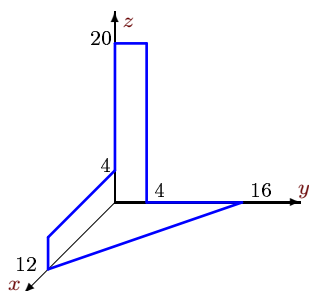
Задача S-19.2.

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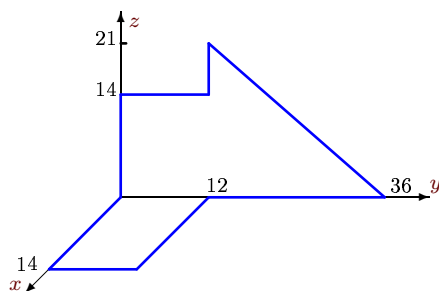
Задача S-19.3.

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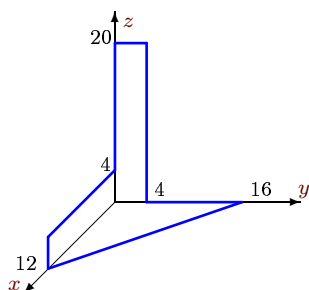
Задача S-19.4.

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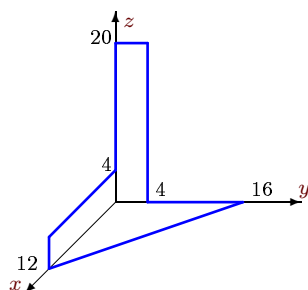
Задача S-19.5.

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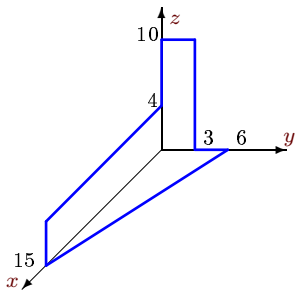
Задача S-19.6.

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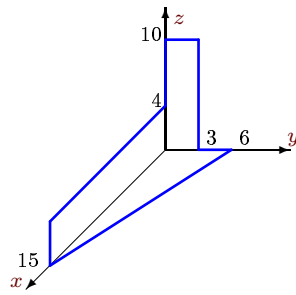
Задача S-19.7.

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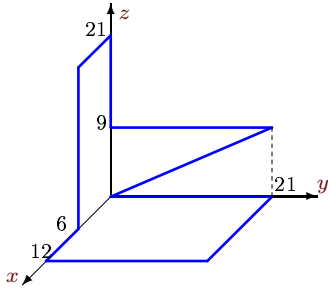
Задача S-19.8.

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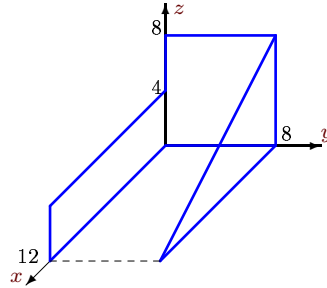
Задача S-19.9.

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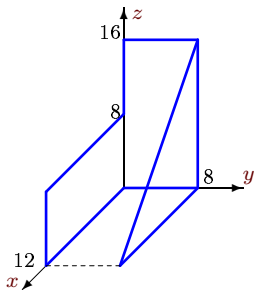
Задача S-19.10.

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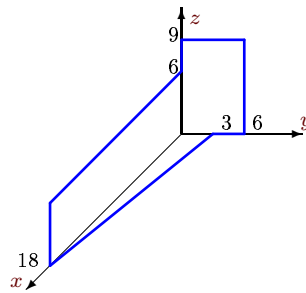
Задача S-19.11.

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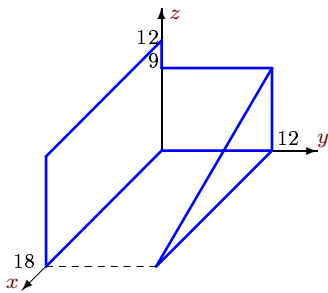
Задача S-19.12.

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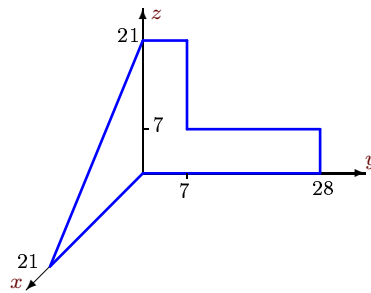
Задача S-19.13.

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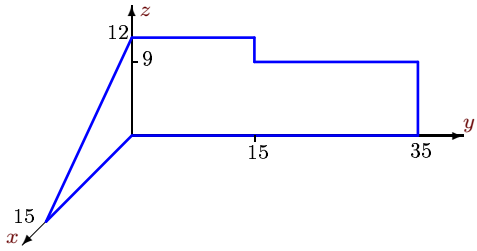
Задача S-19.14.

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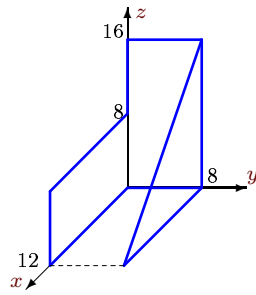
Задача S-19.15.

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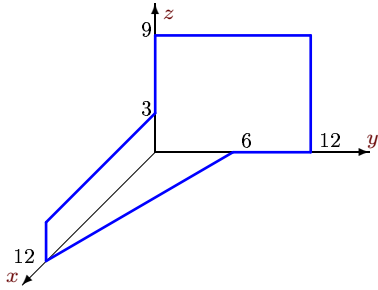
Задача S-19.16.

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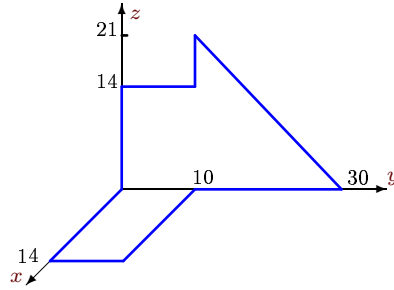
Задача S-19.17.

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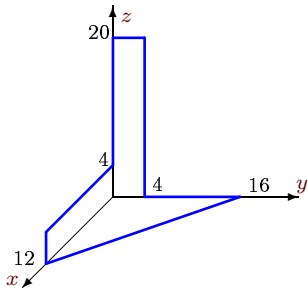
Задача S-19.18.

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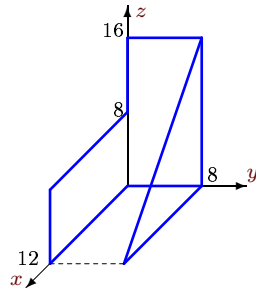
Задача S-19.19.

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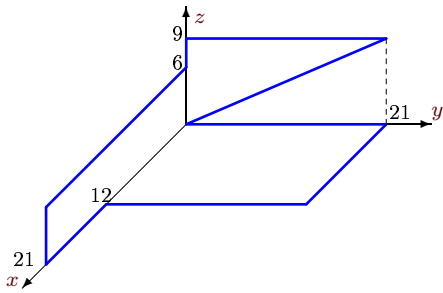
Задача S-19.20.

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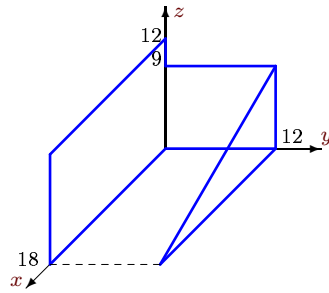
Задача S-19.21.

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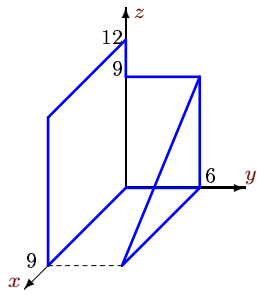
Задача S-19.22.

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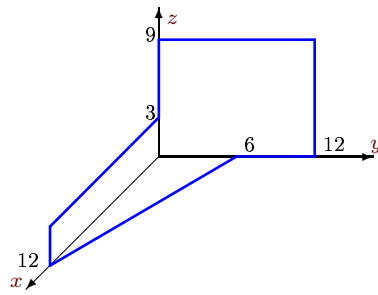
Задача S-19.23.

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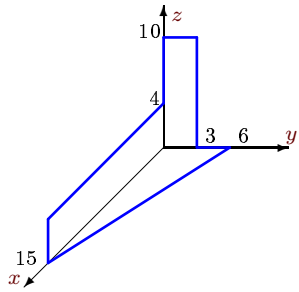
Задача S-19.24.

8



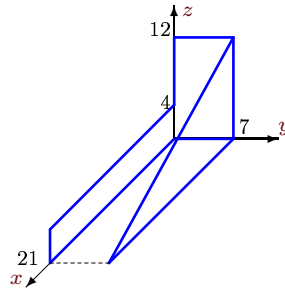
Задача S-19.25.

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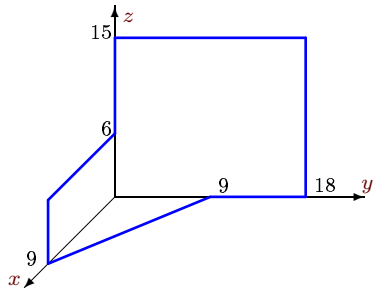
Задача S-19.26.

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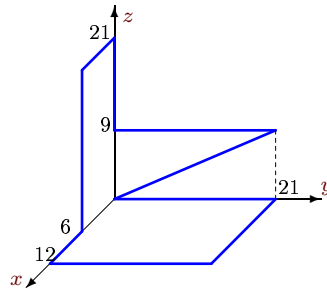
Задача S-19.27.

8



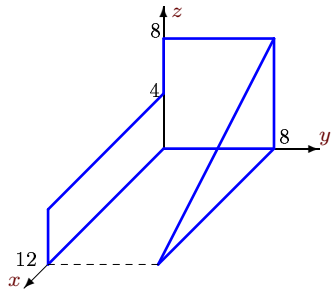
Задача S-19.28.

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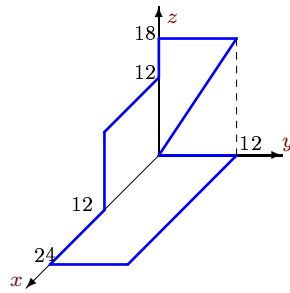
Задача S-19.29.

8



Задача S-19.30.

8



**Ответы.****Центр тяжести тела, составленного из пластин**

17.02.2015

№	$x_c$	$y_c$	$z_c$	$F$
1	1	2	2	54.0
2	3	4	6	320.0
3	3	3	4	224.0
4	2	12	5	588.0
5	3	3	4	224.0
6	3	3	4	224.0
7	5	1	2	135.0
8	5	1	2	135.0
9	4	7	4	472.5
10	3	4	3	160.0
11	3	4	6	320.0
12	6	1	3	189.0
13	6	4	5	405.0
14	3	6	7	514.5
15	1	13	5	450.0
16	3	4	6	320.0
17	2	4	3	180.0
18	2	10	5	490.0
19	3	3	4	224.0
20	3	4	6	320.0
21	6	7	2	472.5
22	6	4	5	405.0
23	3	2	5	202.5
24	2	4	3	180.0
25	5	1	2	135.0
26	6	4	4	294.0
27	1	7	6	364.5
28	4	7	4	472.5
29	3	4	3	160.0
30	8	4	4	540.0

S-19 файл о19s8A