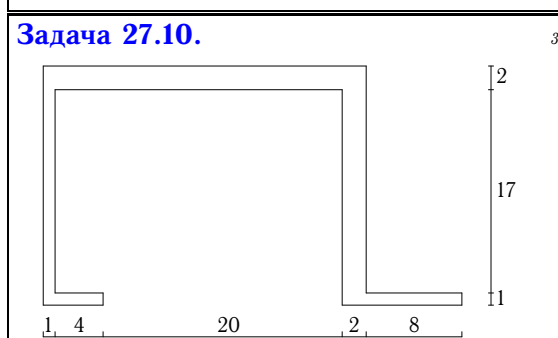
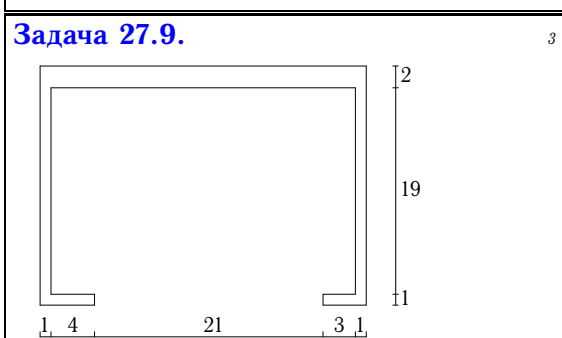
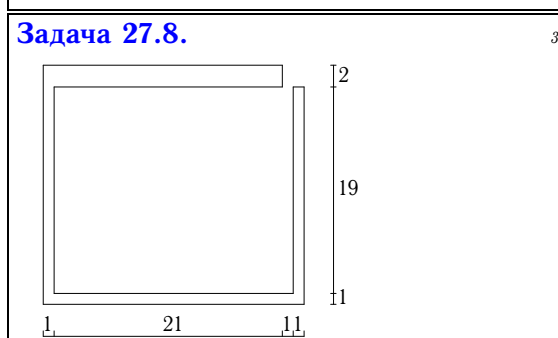
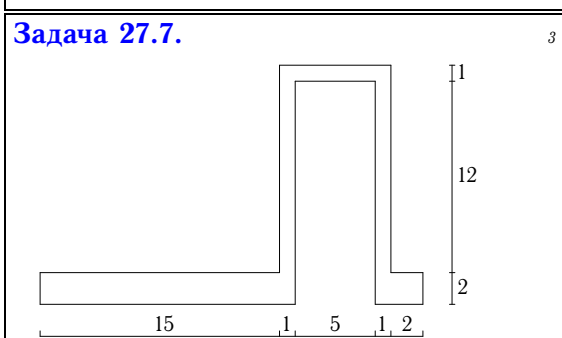
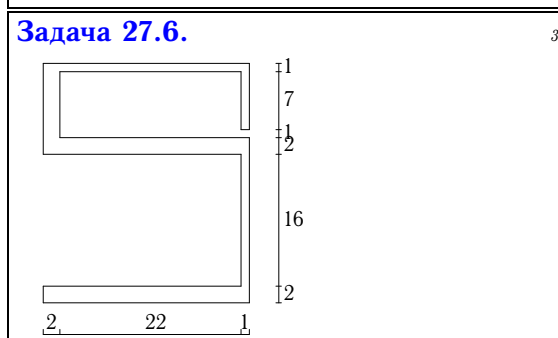
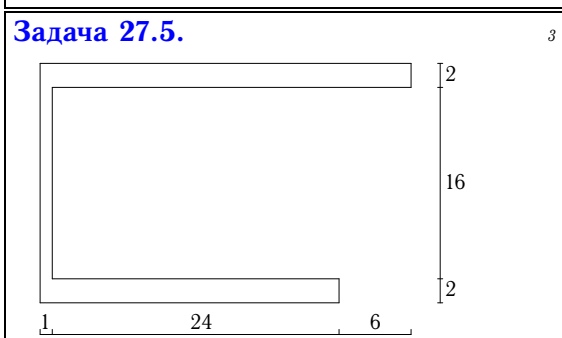
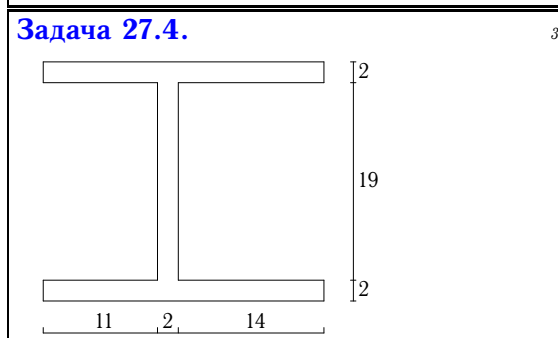
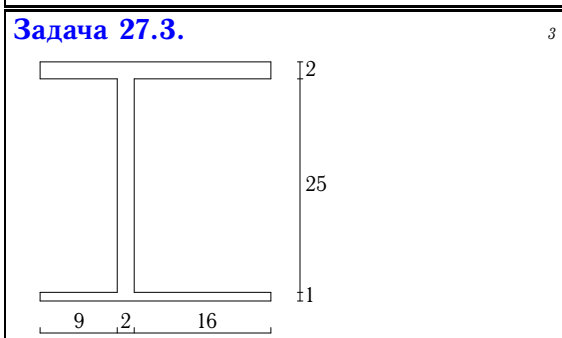
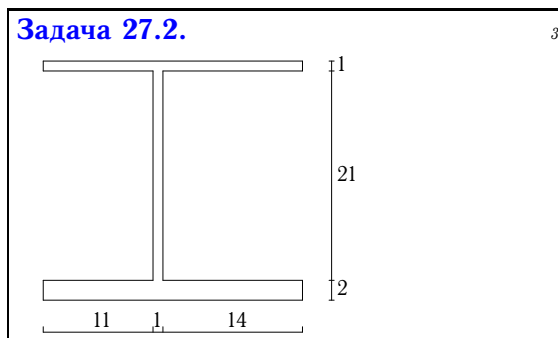
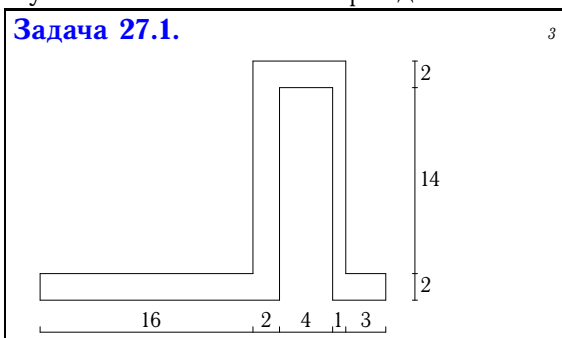


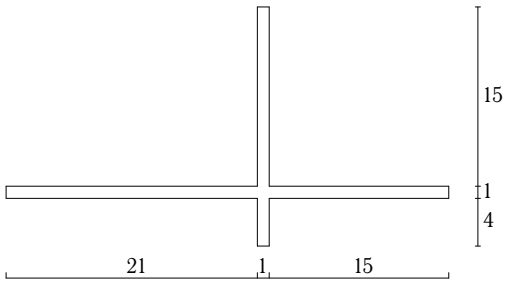
Кручение стержней открытого профиля

К тонкостенному стержню открытого профиля приложен крутящий момент $M = 1 \text{ Нм}$. Найти относительный угол закручивания θ и максимальное касательное напряжение. Модуль упругости материала $E = 0.7 \cdot 10^5 \text{ МПа}$, коэффициент Пуассона $\nu = 0.3$. Размеры даны в мм.



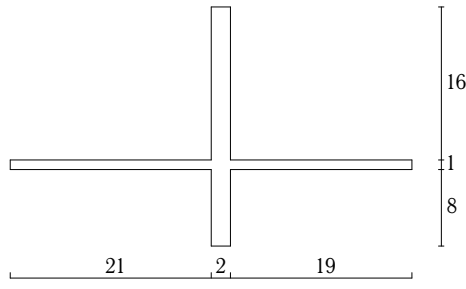
Задача 27.11.

3



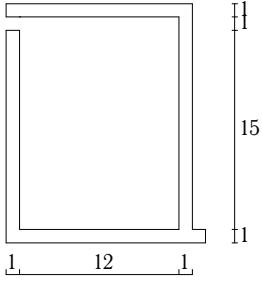
Задача 27.12.

3



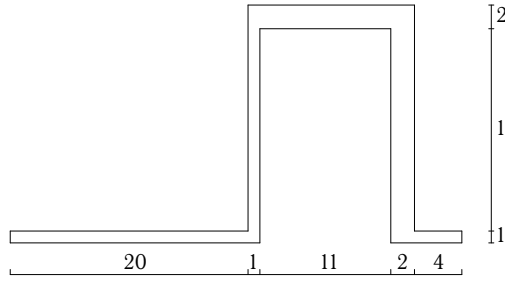
Задача 27.13.

3



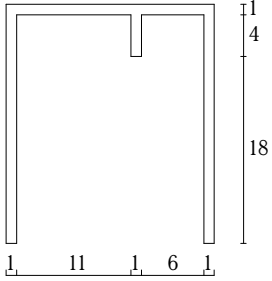
Задача 27.14.

3



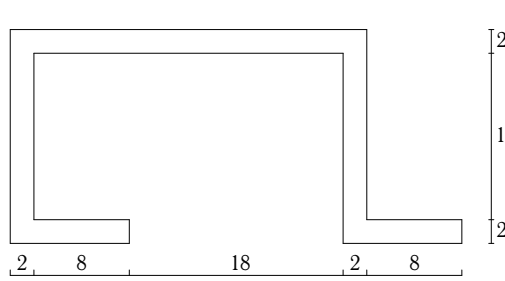
Задача 27.15.

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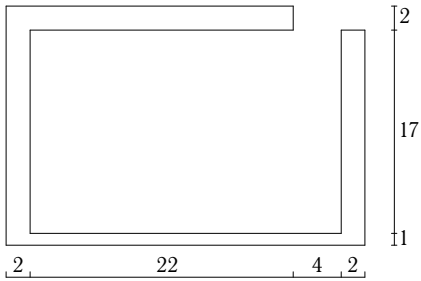
Задача 27.16.

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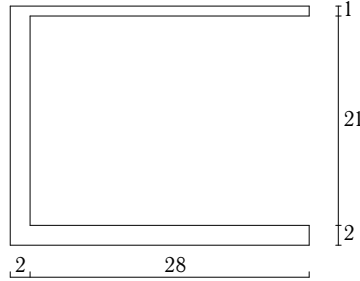
Задача 27.17.

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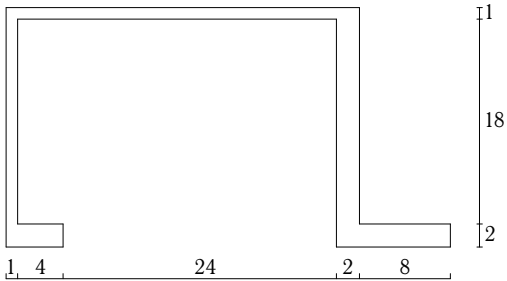
Задача 27.18.

3



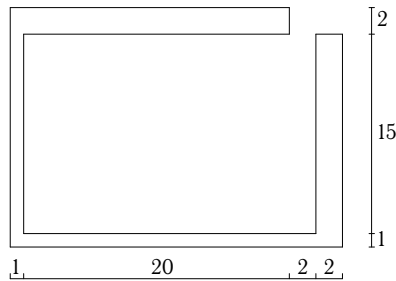
Задача 27.19.

3



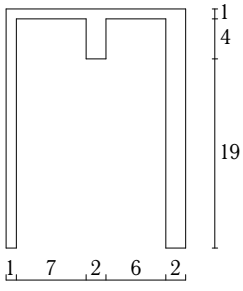
Задача 27.20.

3



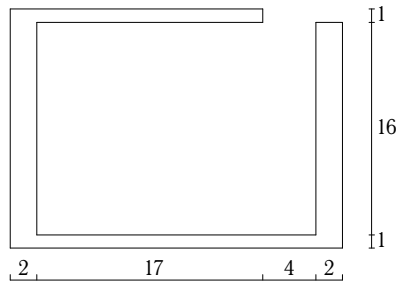
Задача 27.21.

3



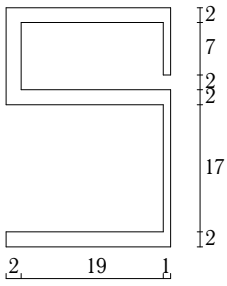
Задача 27.22.

3



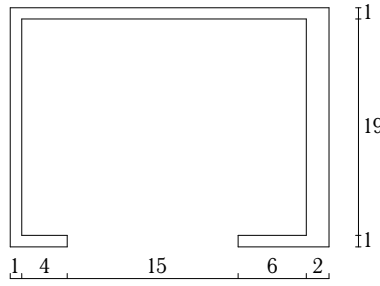
Задача 27.23.

3



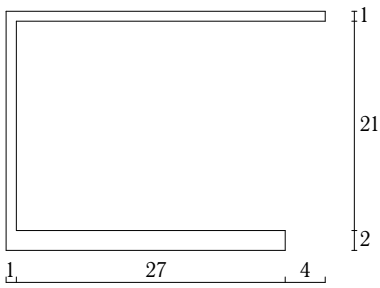
Задача 27.24.

3



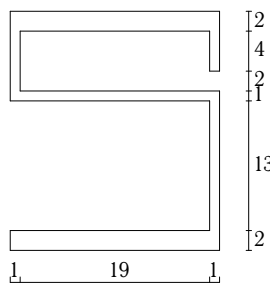
Задача 27.25.

3



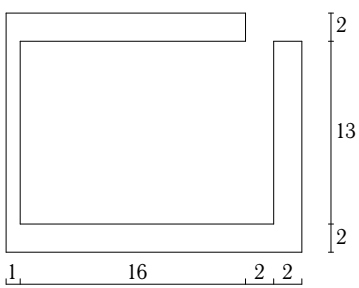
Задача 27.26.

3



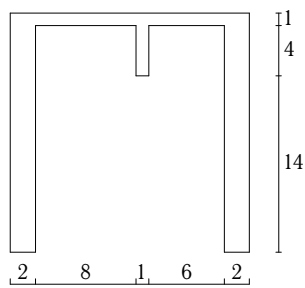
Задача 27.27.

3



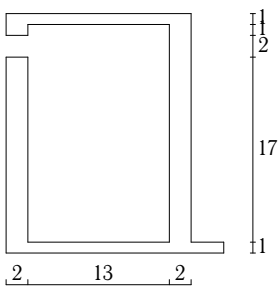
Задача 27.28.

3



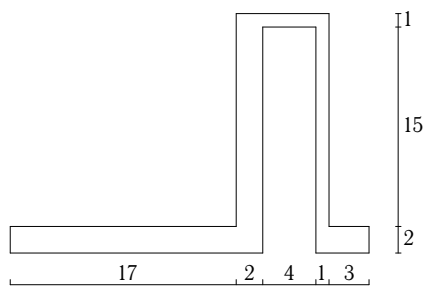
Задача 27.29.

3



Задача 27.30.

3



Кручение стержней открытого профиля

№	J_d мм ⁴	θ 1/м	τ_{max} МПа
1	119.333	0.311	16.760
2	85.000	0.437	23.529
3	147.667	0.252	13.544
4	194.667	0.191	10.274
5	154.667	0.240	12.931
6	170.667	0.218	11.719
7	61.000	0.609	32.787
8	79.333	0.468	25.210
9	95.667	0.388	20.906
10	128.000	0.290	15.625
11	18.667	1.990	53.571
12	78.000	0.476	25.641
13	20.000	1.857	50.000
14	97.333	0.382	20.548
15	22.667	1.639	44.118
16	208.000	0.179	9.615
17	164.667	0.226	12.146
18	146.000	0.254	13.699
19	104.333	0.356	19.169
20	109.333	0.340	18.293
21	85.667	0.434	23.346
22	100.000	0.371	20.000
23	208.000	0.179	9.615
24	70.667	0.526	28.302
25	92.333	0.402	21.661
26	126.667	0.293	15.789
27	140.333	0.265	14.252
28	103.667	0.358	19.293
29	113.667	0.327	17.595
30	108.667	0.342	18.405