

Плоское напряженное состояние

Найти деформации пластинки. Дано: $E = 1000 \text{ МПа}$, $\nu = 0.3$.

Задача 8.1
 $BF = 4 \text{ см}$, $BD = 3 \text{ см}$.

8.3

Задача 8.2
 $BF = 4 \text{ см}$, $BD = 3 \text{ см}$.

8.3

Задача 8.3
 $BF = 4 \text{ см}$, $BD = 3 \text{ см}$.

8.3

Задача 8.4
 $BF = 4 \text{ см}$, $BD = 3 \text{ см}$.

8.3

Задача 8.5
 $BF = 4 \text{ см}$, $BD = 3 \text{ см}$.

8.3

Задача 8.6
 $BF = 4 \text{ см}$, $BD = 3 \text{ см}$.

8.3

Задача 8.7
 $BF = 4 \text{ см}$, $BD = 3 \text{ см}$.

8.3

Задача 8.8
 $BF = 4 \text{ см}$, $BD = 2 \text{ см}$.

8.3

Задача 8.9
 $BF = 4 \text{ см}$, $BD = 3 \text{ см}$.

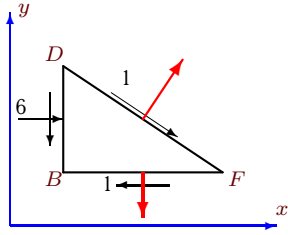
8.3

Задача 8.10
 $BF = 4 \text{ см}$, $BD = 3 \text{ см}$.

8.3

Задача 8.11

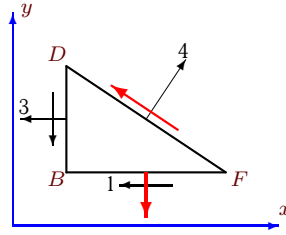
$BF = 4$ см, $BD = 3$ см.



8.3

Задача 8.12

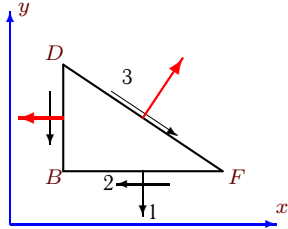
$BF = 8$ см, $BD = 6$ см.



8.3

Задача 8.13

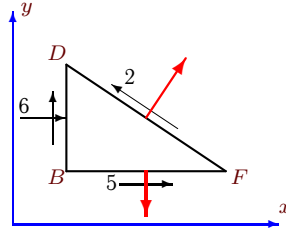
$BF = 4$ см, $BD = 3$ см.



8.3

Задача 8.14

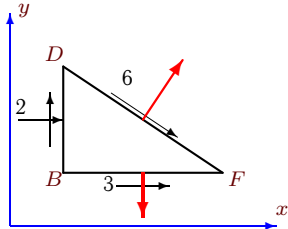
$BF = 4$ см, $BD = 3$ см.



8.3

Задача 8.15

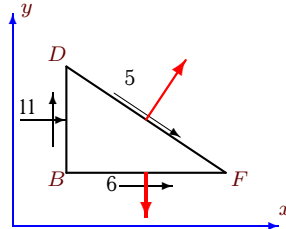
$BF = 4$ см, $BD = 3$ см.



8.3

Задача 8.16

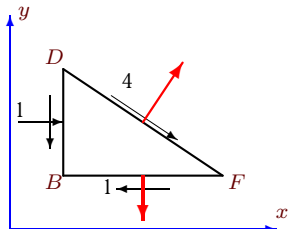
$BF = 4$ см, $BD = 3$ см.



8.3

Задача 8.17

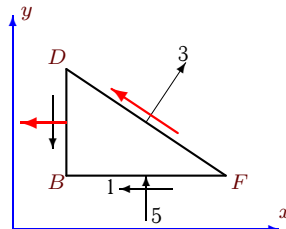
$BF = 4$ см, $BD = 3$ см.



8.3

Задача 8.18

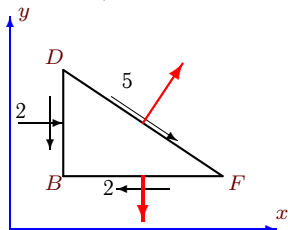
$BF = 4$ см, $BD = 3$ см.



8.3

Задача 8.19

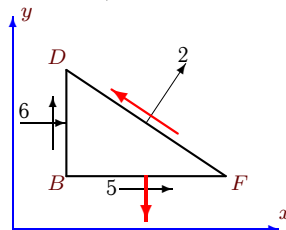
$BF = 4$ см, $BD = 3$ см.



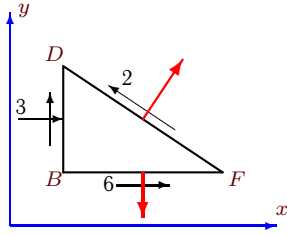
8.3

Задача 8.20

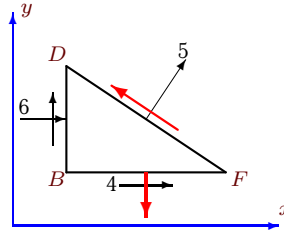
$BF = 3$ см, $BD = 3$ см.



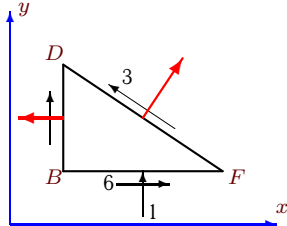
8.3

Задача 8.21 $BF = 4 \text{ см}, BD = 3 \text{ см}.$ 

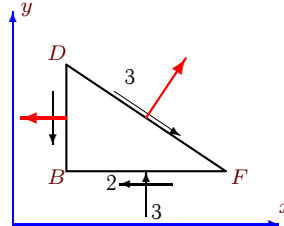
8.3

Задача 8.22 $BF = 4 \text{ см}, BD = 3 \text{ см}.$ 

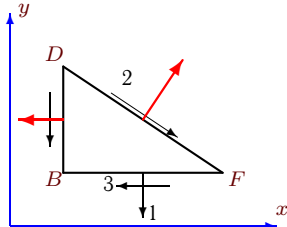
8.3

Задача 8.23 $BF = 4 \text{ см}, BD = 3 \text{ см}.$ 

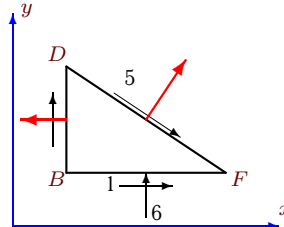
8.3

Задача 8.24 $BF = 3 \text{ см}, BD = 3 \text{ см}.$ 

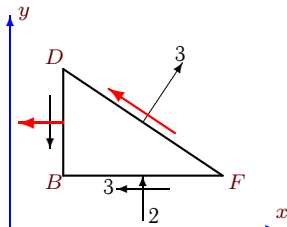
8.3

Задача 8.25 $BF = 3 \text{ см}, BD = 3 \text{ см}.$ 

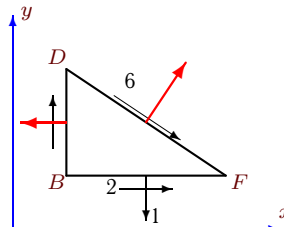
8.3

Задача 8.26 $BF = 4 \text{ см}, BD = 3 \text{ см}.$ 

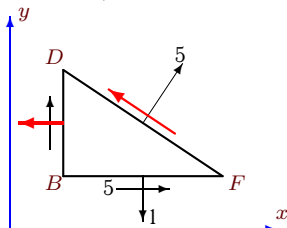
8.3

Задача 8.27 $BF = 8 \text{ см}, BD = 6 \text{ см}.$ 

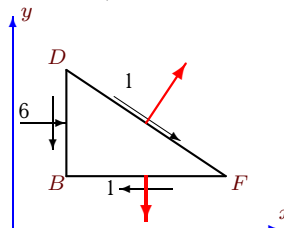
8.3

Задача 8.28 $BF = 8 \text{ см}, BD = 6 \text{ см}.$ 

8.3

Задача 8.29 $BF = 8 \text{ см}, BD = 6 \text{ см}.$ 

8.3

Задача 8.30 $BF = 4 \text{ см}, BD = 3 \text{ см}.$ 

8.3

Плоское напряженное состояние

	σ_x	σ_y	σ	τ_{xy}	τ	σ_{max}	σ_{min}	$\varepsilon_x \cdot 10^4$	$\varepsilon_y \cdot 10^4$
1	3.000	24.500	11.000	-6.000	12.000	26.061	1.439	256.294	-63.794
2	12.889	2.000	4.000	-2.000	-4.667	13.245	1.644	127.513	-23.291
3	-6.000	18.750	6.000	-4.000	13.000	19.380	-6.630	213.695	-124.445
4	5.917	-6.000	-0.750	1.000	-6.000	6.000	-6.083	78.250	-78.833
5	-6.000	-4.250	-2.000	3.000	-0.000	-2.000	-8.250	4.750	-76.500
6	4.083	-3.000	-5.250	-5.000	-2.000	6.669	-5.586	83.446	-75.863
7	-7.333	-2.000	-2.000	2.000	2.000	-1.333	-8.000	10.667	-76.000
8	23.000	2.000	3.000	-4.000	-6.000	23.736	1.264	233.569	-58.569
9	2.000	-7.187	-1.000	3.000	-5.250	2.893	-8.080	53.169	-89.482
10	0.083	1.000	-1.250	-2.000	1.000	2.594	-1.510	30.466	-22.882
11	-6.000	-7.500	-6.000	1.000	-1.000	-5.500	-8.000	-31.000	-63.500
12	3.000	3.063	4.000	1.000	-0.250	4.032	2.031	34.225	8.212
13	6.083	1.000	4.750	2.000	-3.000	6.776	0.307	66.836	-17.253
14	-6.000	-4.750	-10.000	-5.000	2.000	-0.336	-10.414	27.881	-103.131
15	-2.000	-16.250	-14.000	-3.000	-6.000	-1.394	-16.856	36.626	-164.376
16	-11.000	-24.917	-25.667	-6.000	-5.000	-8.770	-27.146	-6.265	-245.152
17	-1.000	-8.750	-5.000	1.000	-4.000	-0.873	-8.877	17.900	-86.150
18	14.556	-5.000	3.000	1.000	-9.667	14.607	-5.051	161.219	-94.330
19	-2.000	-11.250	-6.000	2.000	-5.000	-1.586	-11.664	19.131	-111.881
20	-6.000	20.000	2.000	-5.000	13.000	20.928	-6.928	230.069	-132.069
21	-3.000	-2.333	-8.333	-6.000	2.000	3.343	-8.676	59.454	-96.787
22	-6.000	17.187	5.000	-4.000	12.250	17.858	-6.671	198.593	-120.281
23	-3.750	-1.000	-7.750	-6.000	3.000	3.781	-8.531	63.397	-96.647
24	3.000	-3.000	2.000	2.000	-3.000	3.606	-3.606	46.872	-46.872
25	5.000	1.000	6.000	3.000	-2.000	6.606	-0.606	67.872	-25.872
26	5.000	-6.000	-3.000	-1.000	-5.000	5.090	-6.090	69.172	-76.172
27	3.889	-2.000	3.000	3.000	-3.667	5.148	-3.259	61.257	-48.035
28	14.667	1.000	4.000	-2.000	-6.000	14.953	0.713	147.393	-37.727
29	25.444	1.000	5.000	-5.000	-10.333	26.428	0.017	264.226	-79.115
30	-6.000	-7.500	-6.000	1.000	-1.000	-5.500	-8.000	-31.000	-63.500