

Плоское напряженное состояние

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

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

8.2

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

8.2

Задача 8.3
 $BF = 8 \text{ см}$, $BD = 6 \text{ см}$.

8.2

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

8.2

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

8.2

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

8.2

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

8.2

Задача 8.8
 $BF = 4 \text{ см}$, $BD = 3 \text{ см}$.

8.2

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

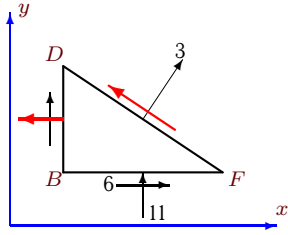
8.2

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

8.2

Задача 8.11

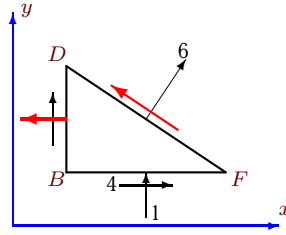
$BF = 4$ см, $BD = 3$ см.



8.2

Задача 8.12

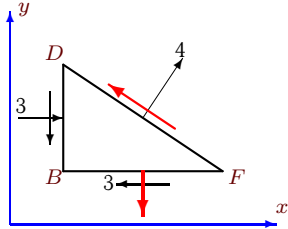
$BF = 4$ см, $BD = 3$ см.



8.2

Задача 8.13

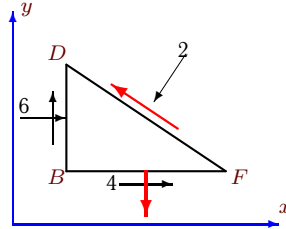
$BF = 4$ см, $BD = 3$ см.



8.2

Задача 8.14

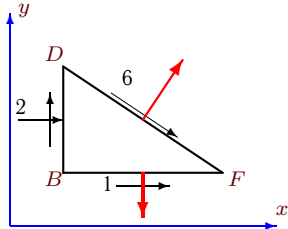
$BF = 3$ см, $BD = 3$ см.



8.2

Задача 8.15

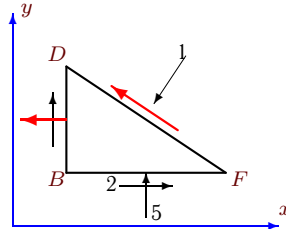
$BF = 4$ см, $BD = 2$ см.



8.2

Задача 8.16

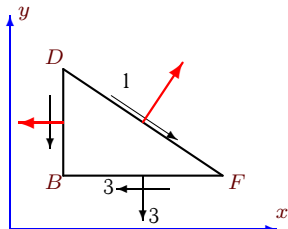
$BF = 8$ см, $BD = 6$ см.



8.2

Задача 8.17

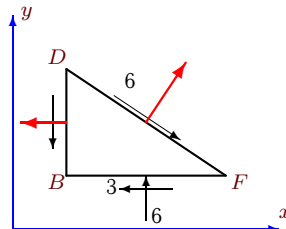
$BF = 4$ см, $BD = 3$ см.



8.2

Задача 8.18

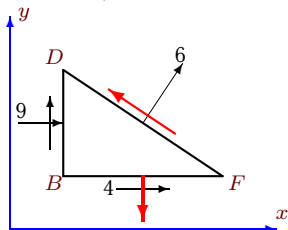
$BF = 4$ см, $BD = 3$ см.



8.2

Задача 8.19

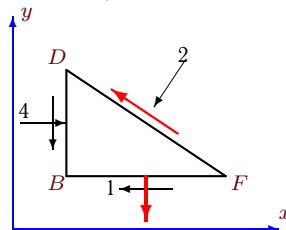
$BF = 4$ см, $BD = 3$ см.



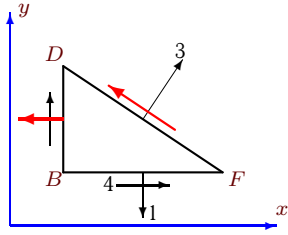
8.2

Задача 8.20

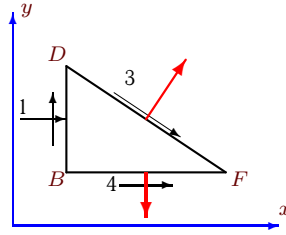
$BF = 4$ см, $BD = 3$ см.



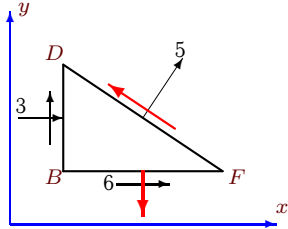
8.2

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

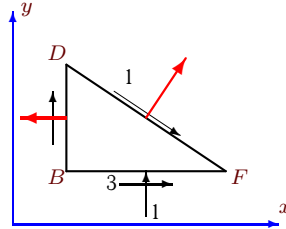
8.2

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

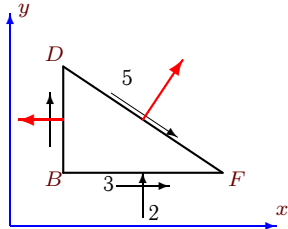
8.2

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

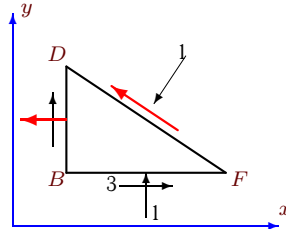
8.2

Задача 8.24 $BF = 4 \text{ см}, BD = 3 \text{ см}.$ 

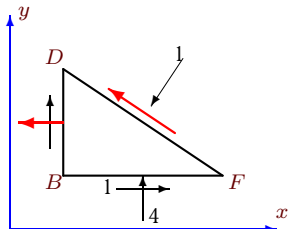
8.2

Задача 8.25 $BF = 4 \text{ см}, BD = 3 \text{ см}.$ 

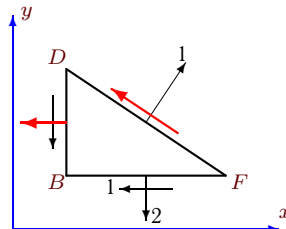
8.2

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

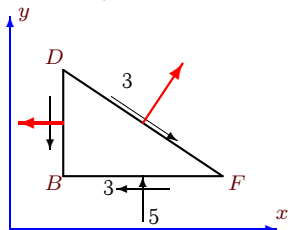
8.2

Задача 8.27 $BF = 4 \text{ см}, BD = 3 \text{ см}.$ 

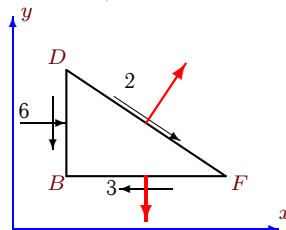
8.2

Задача 8.28 $BF = 4 \text{ см}, BD = 3 \text{ см}.$ 

8.2

Задача 8.29 $BF = 4 \text{ см}, BD = 3 \text{ см}.$ 

8.2

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

8.2

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	18.444	-6.000	-2.000	-5.000	-10.333	19.428	-6.983	215.226	-128.115
2	-1.000	-5.562	-2.000	2.000	-2.750	-0.247	-6.315	16.471	-62.408
3	1.000	-12.083	-8.333	-1.000	-6.000	1.076	-12.159	47.238	-124.821
4	2.333	2.000	5.000	3.000	-1.000	5.171	-0.838	54.227	-23.893
5	51.889	-3.000	11.000	-6.000	-24.667	52.537	-3.648	536.316	-194.093
6	-8.000	26.000	6.000	-3.000	17.000	26.263	-8.263	287.415	-161.415
7	-3.000	-2.667	-5.667	-3.000	1.000	0.171	-5.838	19.227	-58.893
8	12.667	-1.000	2.000	-2.000	-6.000	12.953	-1.287	133.393	-51.727
9	-5.000	-0.125	1.000	3.000	1.500	1.303	-6.428	32.313	-68.188
10	-11.000	19.000	-2.000	-6.000	15.000	20.155	-12.155	238.021	-182.021
11	43.889	-11.000	3.000	-6.000	-24.667	44.537	-11.648	480.316	-250.093
12	29.111	-1.000	6.000	-4.000	-13.333	29.633	-1.522	300.901	-104.123
13	-3.000	3.438	4.000	3.000	2.250	4.619	-4.181	58.732	-55.669
14	-6.000	10.000	-2.000	-4.000	8.000	10.944	-6.944	130.276	-102.276
15	-2.000	-18.500	-16.000	-1.000	-6.000	-1.940	-18.560	36.285	-179.785
16	11.444	-5.000	-1.000	-2.000	-7.333	11.684	-5.240	132.561	-87.450
17	3.333	3.000	6.000	3.000	-1.000	6.171	0.162	61.227	-16.893
18	4.750	-6.000	0.750	3.000	-6.000	5.531	-6.781	75.647	-84.397
19	-9.000	20.437	6.000	-4.000	15.250	20.971	-9.534	238.315	-158.252
20	-4.000	-2.375	-2.000	1.000	0.500	-1.899	-4.476	-5.562	-39.063
21	17.222	1.000	3.000	-4.000	-6.667	18.155	0.067	181.347	-53.791
22	-1.000	-9.583	-10.333	-4.000	-3.000	0.575	-11.158	39.226	-113.309
23	-3.000	18.500	5.000	-6.000	12.000	20.061	-4.561	214.294	-105.794
24	2.833	-1.000	-2.500	-3.000	-1.000	4.477	-2.643	52.697	-39.863
25	10.167	-2.000	-0.500	-3.000	-5.000	10.866	-2.700	116.760	-59.594
26	7.000	-1.000	-1.000	-3.000	-3.000	8.000	-2.000	86.000	-44.000
27	7.000	-4.000	-1.000	-1.000	-5.000	7.090	-4.090	83.172	-62.172
28	-3.444	2.000	1.000	1.000	2.333	2.178	-3.622	32.646	-42.757
29	-0.500	-5.000	-0.500	3.000	-3.000	1.000	-6.500	29.500	-68.000
30	-6.000	-10.000	-5.000	3.000	-2.000	-4.394	-11.606	-9.128	-102.872