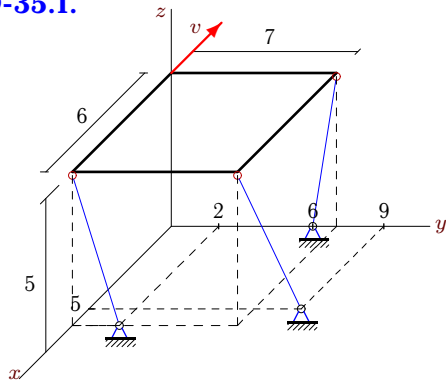


Кинетическая энергия тела в произвольном движении

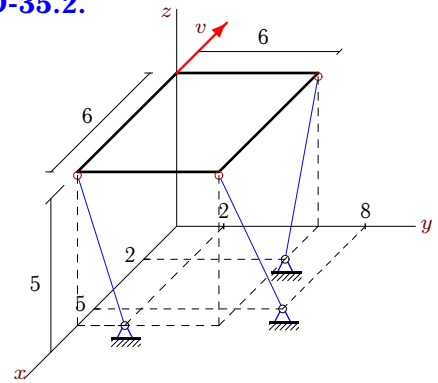
Найти кинетическую энергию однородной прямоугольной пластинки, закрепленной шарнирно на трех стержнях параллельно плоскости xy . Задана скорость одной из вершин пластинки. Размеры даны в метрах.

Задача D-35.1.



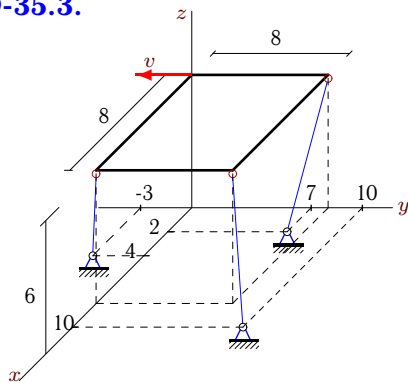
$m = 6 \text{ кг}, v = 35 \text{ м/с}.$

Задача D-35.2.



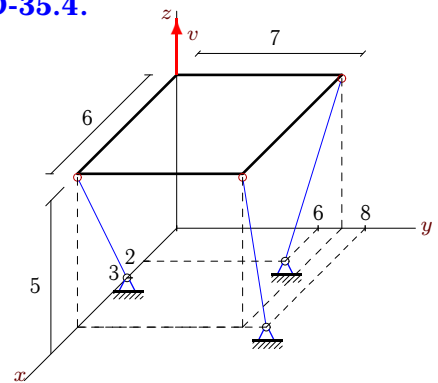
$m = 1 \text{ кг}, v = 30 \text{ м/с}.$

Задача D-35.3.



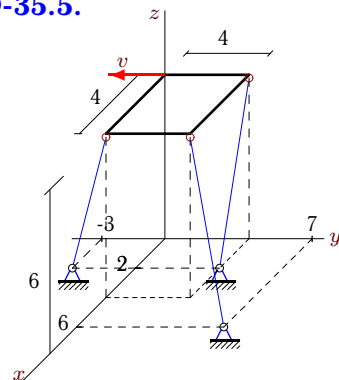
$m = 12 \text{ кг}, v = 30 \text{ м/с}.$

Задача D-35.4.



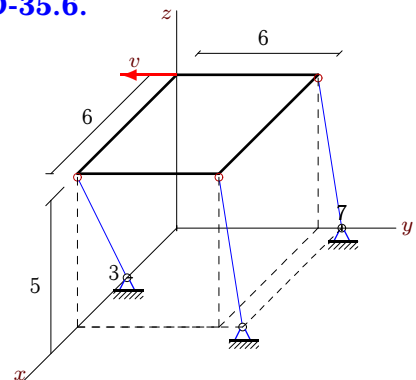
$m = 6 \text{ кг}, v = 20 \text{ м/с}.$

Задача D-35.5.



$m = 1 \text{ кг}, v = 36 \text{ м/с}.$

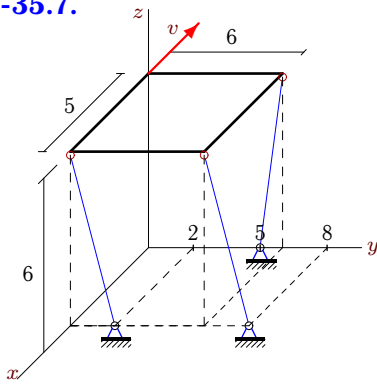
Задача D-35.6.



$m = 3 \text{ кг}, v = 5 \text{ м/с}.$

Задача D-35.7.

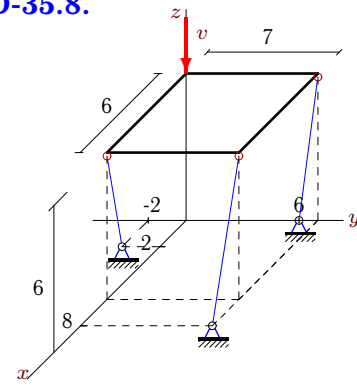
189



$m = 3 \text{ кг}, v = 36 \text{ м/с.}$

Задача D-35.8.

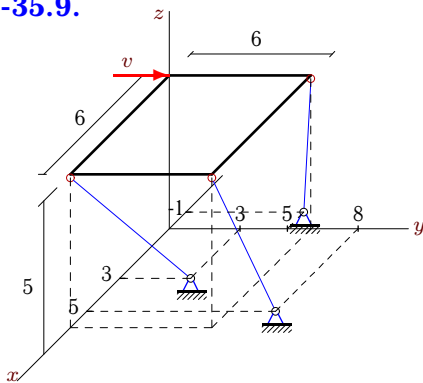
189



$m = 3 \text{ кг}, v = 2 \text{ м/с.}$

Задача D-35.9.

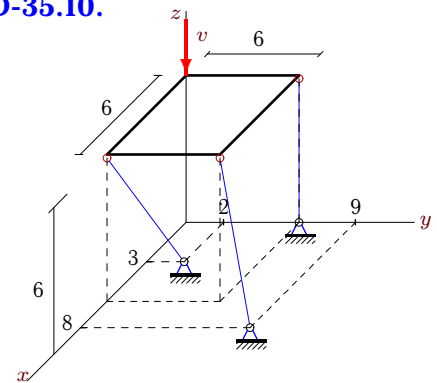
189



$m = 12 \text{ кг}, v = 5 \text{ м/с.}$

Задача D-35.10.

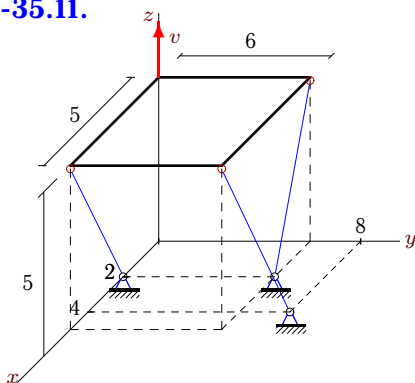
189



$m = 1 \text{ кг}, v = 6 \text{ м/с.}$

Задача D-35.11.

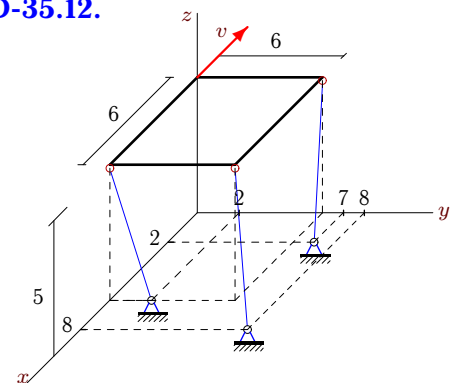
189



$m = 2 \text{ кг}, v = 28 \text{ м/с.}$

Задача D-35.12.

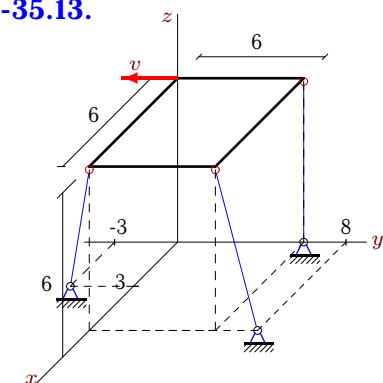
189



$m = 1 \text{ кг}, v = 30 \text{ м/с.}$

Задача D-35.13.

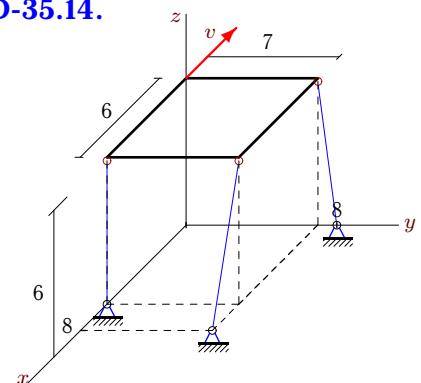
189



$m = 1 \text{ кг}, v = 30 \text{ м/с.}$

Задача D-35.14.

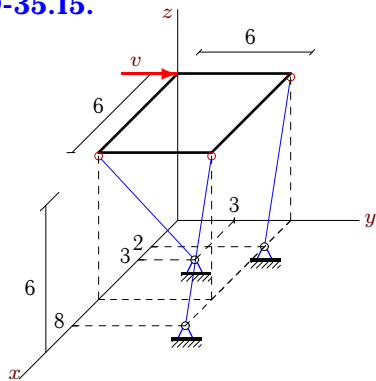
189



$m = 1 \text{ кг}, v = 42 \text{ м/с.}$

Задача D-35.15.

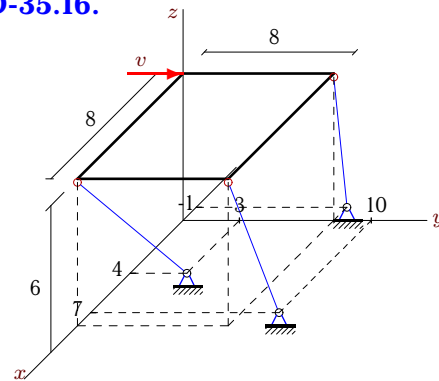
189



$m = 1 \text{ кг}, v = 18 \text{ м/с.}$

Задача D-35.16.

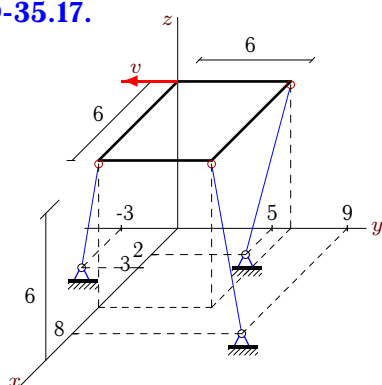
189



$m = 6 \text{ кг}, v = 6 \text{ м/с.}$

Задача D-35.17.

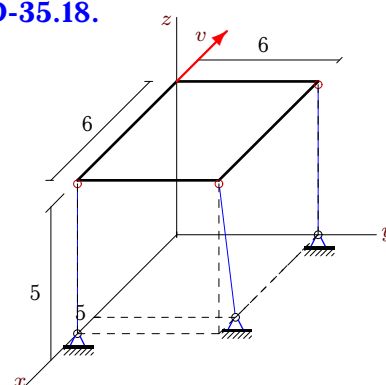
189



$m = 6 \text{ кг}, v = 36 \text{ м/с.}$

Задача D-35.18.

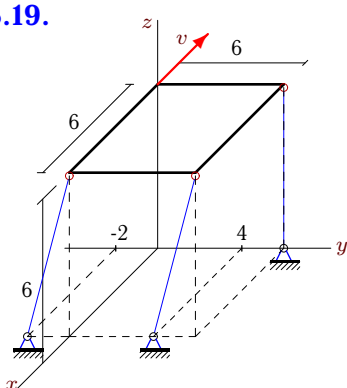
189



$m = 1 \text{ кг}, v = 30 \text{ м/с.}$

Задача D-35.19.

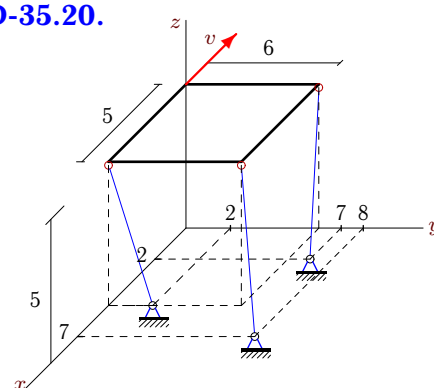
189



$m = 1 \text{ кг}, v = 36 \text{ м/с.}$

Задача D-35.20.

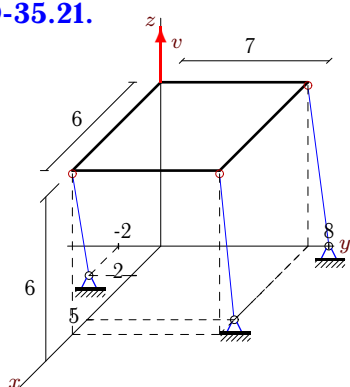
189



$m = 6 \text{ кг}, v = 30 \text{ м/с.}$

Задача D-35.21.

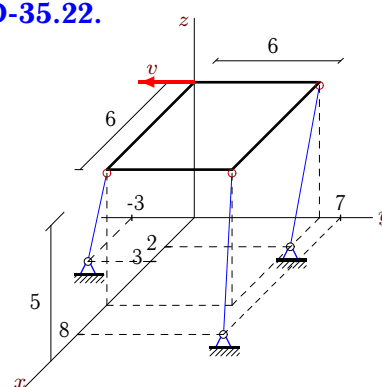
189



$m = 12 \text{ кг}, v = 19 \text{ м/с.}$

Задача D-35.22.

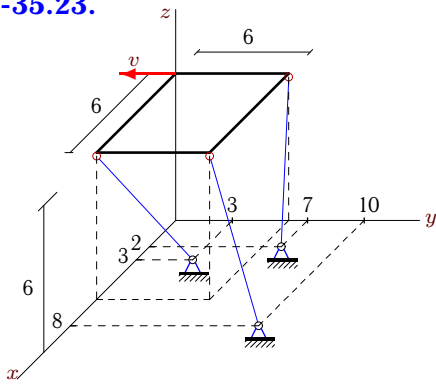
189



$m = 1 \text{ кг}, v = 20 \text{ м/с.}$

Задача D-35.23.

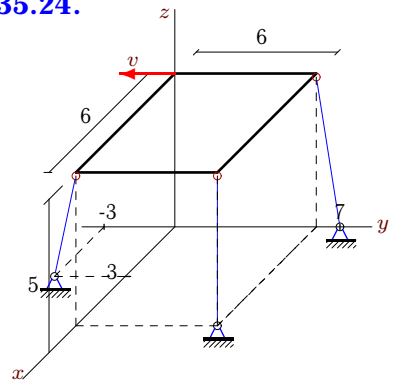
189



$m = 12 \text{ кг}, v = 6 \text{ м/с.}$

Задача D-35.24.

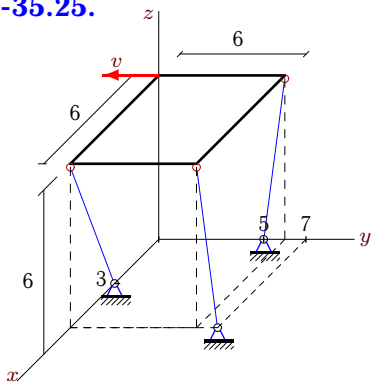
189



$m = 12 \text{ кг}, v = 15 \text{ м/с.}$

Задача D-35.25.

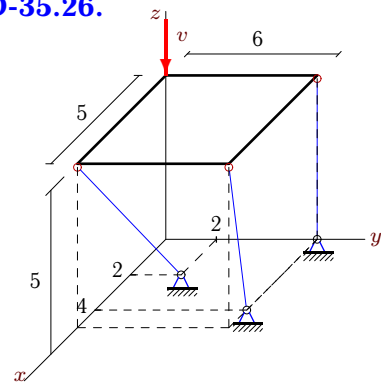
189



$m = 6 \text{ кг}, v = 6 \text{ м/с.}$

Задача D-35.26.

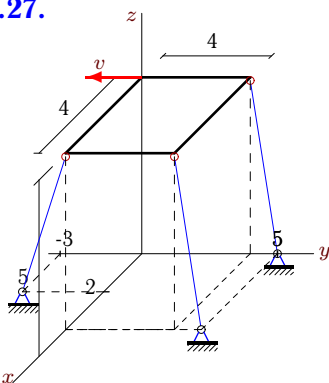
189



$m = 6 \text{ кг}, v = 4 \text{ м/с.}$

Задача D-35.27.

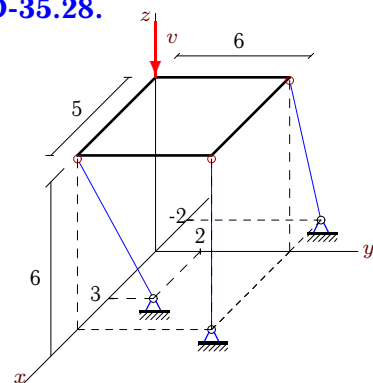
189



$m = 6 \text{ кг}, v = 20 \text{ м/с.}$

Задача D-35.28.

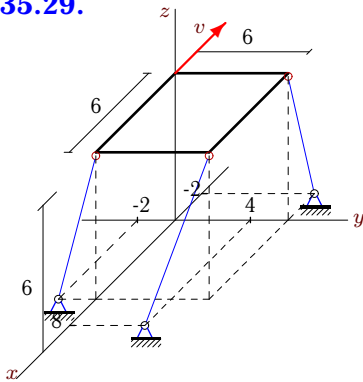
189



$m = 3 \text{ кг}, v = 22 \text{ м/с.}$

Задача D-35.29.

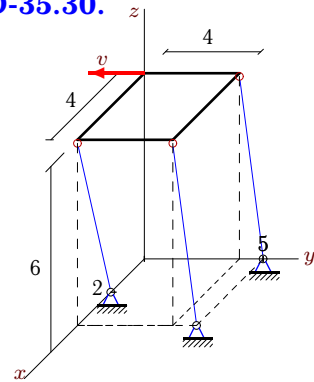
189



$m = 1 \text{ кг}, v = 36 \text{ м/с.}$

Задача D-35.30.

189



$m = 6 \text{ кг}, v = 6 \text{ м/с.}$

Ответы.**Кинетическая энергия тела в произвольном движении** 27.11.2013

№	ω_x	ω_y	ω_z	J_x	J_y	J_z	T
1	0.00	-2.00	5.00	24.50	18.00	42.50	2269
2	0.00	-2.00	5.00	3.00	3.00	6.00	324
3	-0.88	0.38	4.50	64.00	64.00	128.00	4283
4	-0.86	3.33	-5.00	24.50	18.00	42.50	2381
5	-3.00	0.00	9.00	1.33	1.33	2.67	456
6	-0.17	0.00	0.00	9.00	9.00	18.00	38
7	0.00	-2.00	6.00	9.00	6.25	15.25	1148
8	0.29	-2.33	-6.00	12.25	9.00	21.25	1609
9	-0.17	-0.50	0.00	36.00	36.00	72.00	161
10	1.00	1.00	-6.00	3.00	3.00	6.00	453
11	-2.67	5.60	-5.00	6.00	4.17	10.17	631
12	0.00	-2.00	5.00	3.00	3.00	6.00	324
13	0.00	0.00	5.00	3.00	3.00	6.00	300
14	0.00	0.00	6.00	4.08	3.00	7.08	510
15	1.00	0.00	-3.00	3.00	3.00	6.00	114
16	-0.13	0.00	-0.75	32.00	32.00	64.00	73
17	-1.33	0.50	7.00	18.00	18.00	36.00	2989
18	0.00	0.00	5.00	3.00	3.00	6.00	300
19	0.00	2.00	6.00	3.00	3.00	6.00	456
20	0.00	-2.00	5.00	18.00	12.50	30.50	1625
21	-2.71	1.17	-6.00	49.00	36.00	85.00	6541
22	-1.33	0.00	3.33	3.00	3.00	6.00	144
23	-0.17	0.50	0.00	36.00	36.00	72.00	245
24	-0.50	-0.50	1.67	36.00	36.00	72.00	859
25	0.17	0.00	2.00	18.00	18.00	36.00	181
26	0.67	1.20	-5.00	18.00	12.50	30.50	1613
27	-1.00	-0.75	3.75	8.00	8.00	16.00	757
28	1.67	-2.40	-6.00	9.00	6.25	15.25	1310
29	0.00	2.00	6.00	3.00	3.00	6.00	456
30	-0.25	0.00	0.00	8.00	8.00	16.00	109

D-35 файл о35d189A