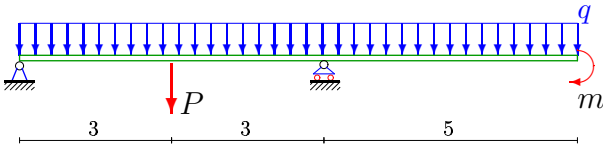


Балка

Построить эпюры моментов и перерезывающих сил в балке. Найти сечение балки с максимальным моментом. Определить прогиб Δy балки в точке приложения силы P .

Задача 4.1.

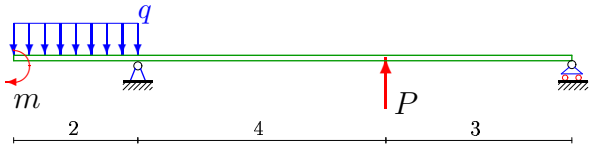
111



$$P = 3 \text{ кН}, m = 30 \text{ кНм}, q = 5 \text{ кН/м.}$$

Задача 4.2.

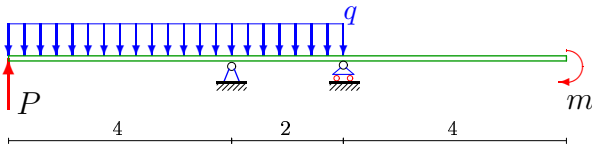
111



$$P = 2 \text{ кН}, m = 40 \text{ кНм}, q = 4 \text{ кН/м.}$$

Задача 4.3.

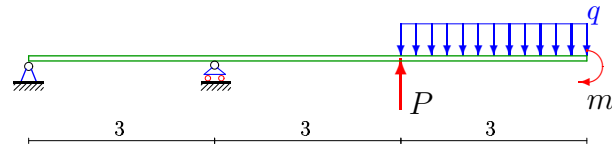
111



$$P = 5 \text{ кН}, m = 10 \text{ кНм}, q = 6 \text{ кН/м.}$$

Задача 4.4.

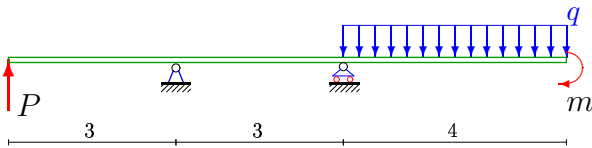
111



$$P = 3 \text{ кН}, m = 10 \text{ кНм}, q = 6 \text{ кН/м.}$$

Задача 4.5.

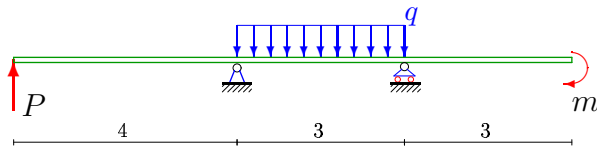
111



$$P = 6 \text{ кН}, m = 40 \text{ кНм}, q = 4 \text{ кН/м.}$$

Задача 4.6.

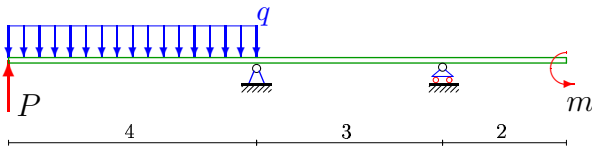
111



$$P = 6 \text{ кН}, m = 20 \text{ кНм}, q = 5 \text{ кН/м.}$$

Задача 4.7.

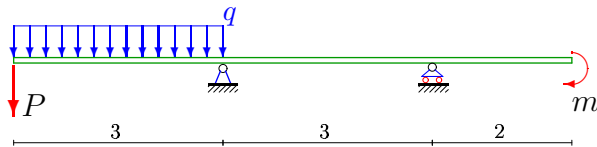
111



$$P = 6 \text{ кН}, m = 20 \text{ кНм}, q = 6 \text{ кН/м.}$$

Задача 4.8.

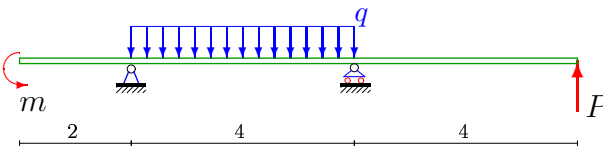
111



$$P = 3 \text{ кН}, m = 40 \text{ кНм}, q = 4 \text{ кН/м.}$$

Задача 4.9.

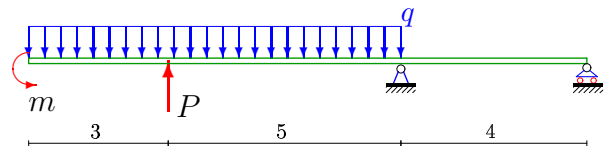
111



$$P = 3 \text{ кН}, m = 10 \text{ кНм}, q = 7 \text{ кН/м.}$$

Задача 4.10.

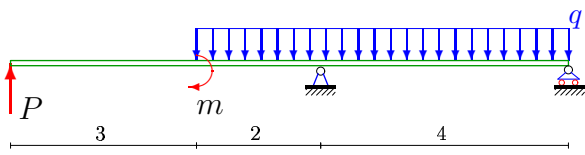
111



$$P = 7 \text{ кН}, m = 10 \text{ кНм}, q = 7 \text{ кН/м.}$$

Задача 4.11.

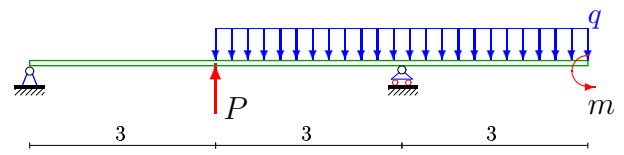
111



$P = 7 \text{ кН}, m = 30 \text{ кНм}, q = 5 \text{ кН/м}.$

Задача 4.12.

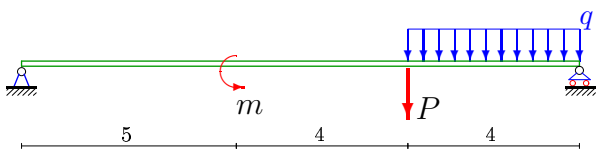
111



$P = 7 \text{ кН}, m = 20 \text{ кНм}, q = 6 \text{ кН/м}.$

Задача 4.13.

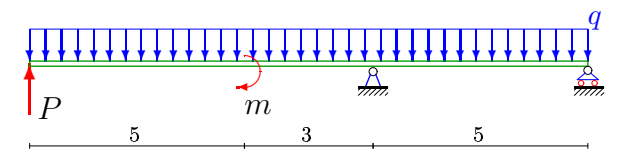
111



$P = 7 \text{ кН}, m = 10 \text{ кНм}, q = 7 \text{ кН/м}.$

Задача 4.14.

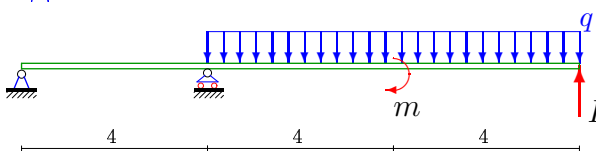
111



$P = 10 \text{ кН}, m = 30 \text{ кНм}, q = 5 \text{ кН/м}.$

Задача 4.15.

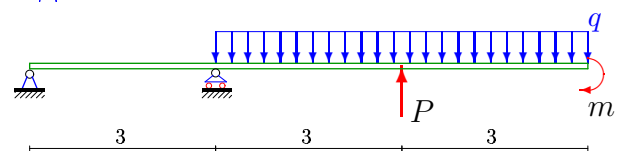
111



$P = 9 \text{ кН}, m = 10 \text{ кНм}, q = 6 \text{ кН/м}.$

Задача 4.16.

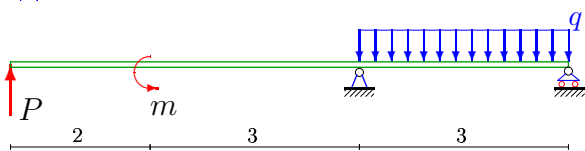
111



$P = 3 \text{ кН}, m = 20 \text{ кНм}, q = 5 \text{ кН/м}.$

Задача 4.17.

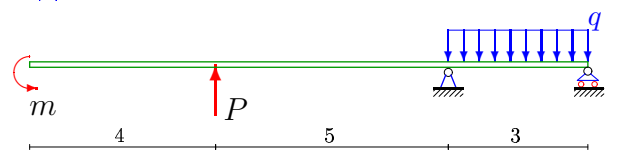
111



$P = 4 \text{ кН}, m = 10 \text{ кНм}, q = 7 \text{ кН/м}.$

Задача 4.18.

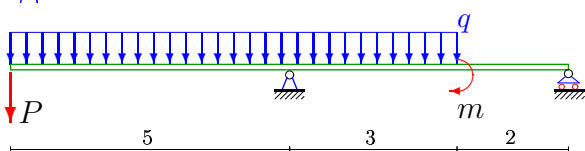
111



$P = 8 \text{ кН}, m = 20 \text{ кНм}, q = 6 \text{ кН/м}.$

Задача 4.19.

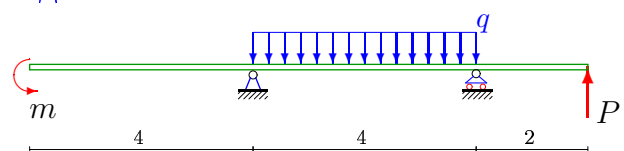
111



$P = 3 \text{ кН}, m = 30 \text{ кНм}, q = 5 \text{ кН/м}.$

Задача 4.20.

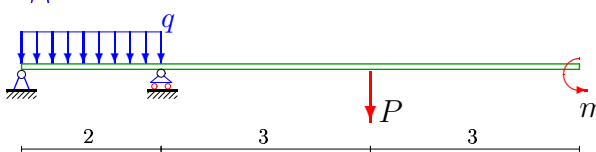
111



$P = 9 \text{ кН}, m = 20 \text{ кНм}, q = 6 \text{ кН/м}.$

Задача 4.21.

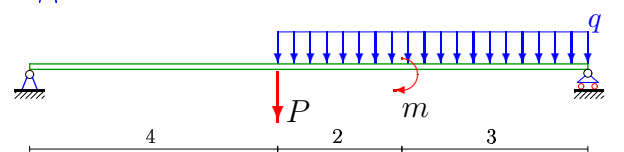
111



$P = 3 \text{ кН}, m = 10 \text{ кНм}, q = 7 \text{ кН/м}.$

Задача 4.22.

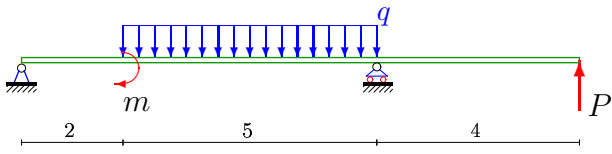
111



$P = 6 \text{ кН}, m = 30 \text{ кНм}, q = 5 \text{ кН/м}.$

Задача 4.23.

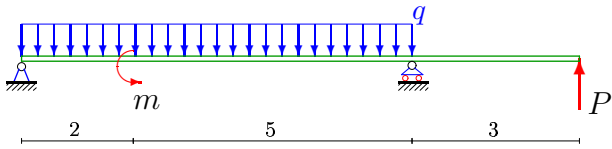
111



$P = 4 \text{ кН}, m = 10 \text{ кНм}, q = 6 \text{ кН/м}.$

Задача 4.25.

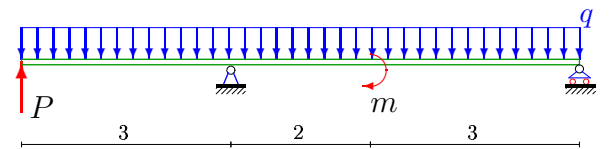
111



$P = 4 \text{ кН}, m = 10 \text{ кНм}, q = 7 \text{ кН/м}.$

Задача 4.27.

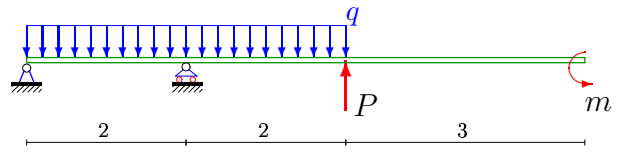
111



$P = 3 \text{ кН}, m = 40 \text{ кНм}, q = 4 \text{ кН/м}.$

Задача 4.24.

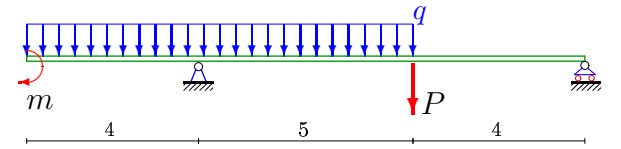
111



$P = 4 \text{ кН}, m = 20 \text{ кНм}, q = 6 \text{ кН/м}.$

Задача 4.26.

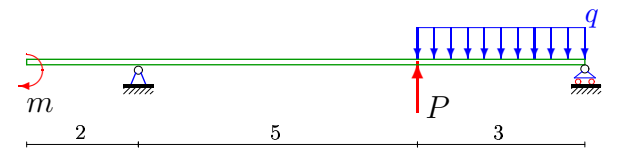
111



$P = 5 \text{ кН}, m = 20 \text{ кНм}, q = 5 \text{ кН/м}.$

Задача 4.28.

111



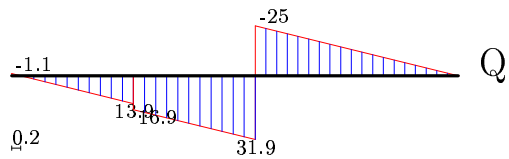
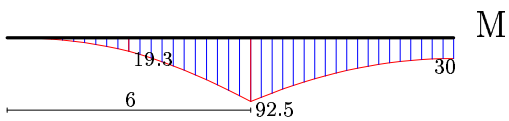
$P = 4 \text{ кН}, m = 10 \text{ кНм}, q = 6 \text{ кН/м}.$

M4

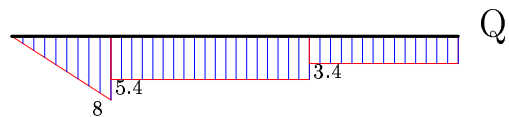
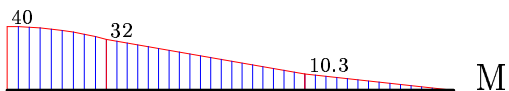
Отвeты.
Балка

03-Apr-22

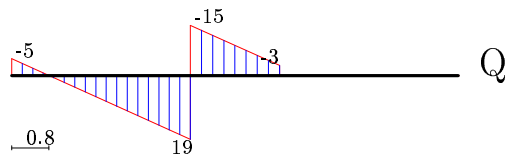
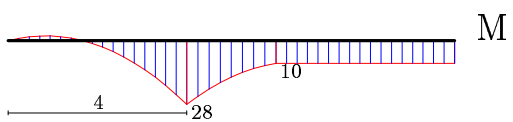
Задача 1.



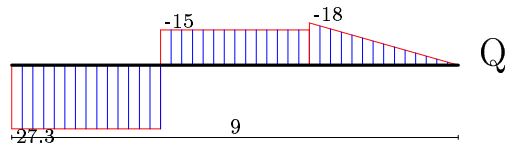
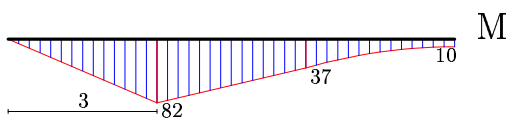
Задача 2.



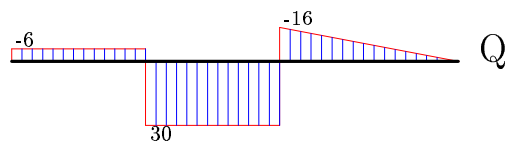
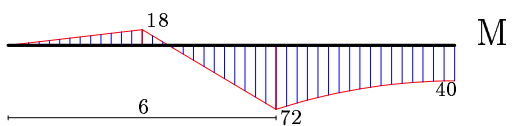
Задача 3.



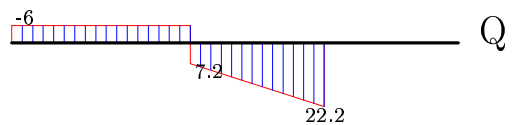
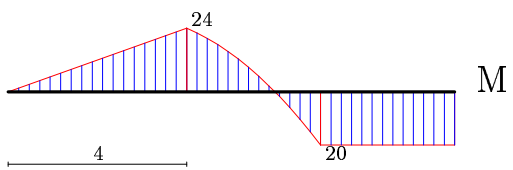
Задача 4.



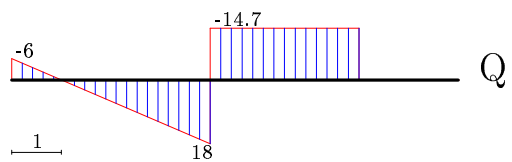
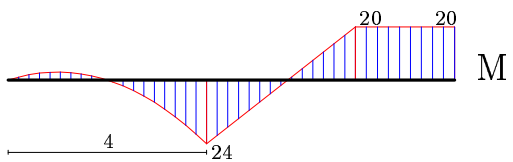
Задача 5.



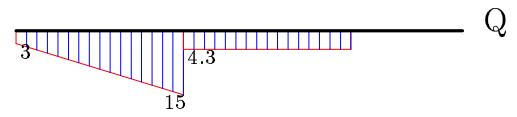
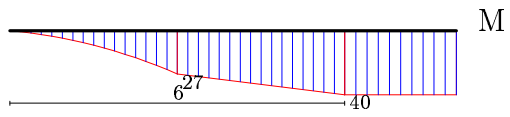
Задача 6.



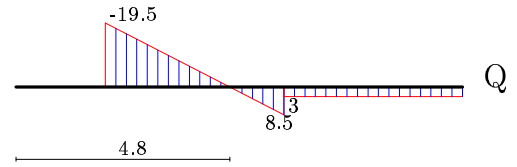
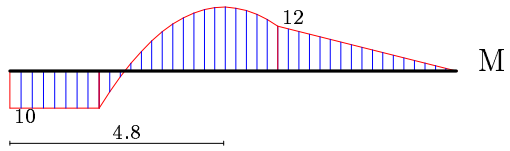
Задача 7.



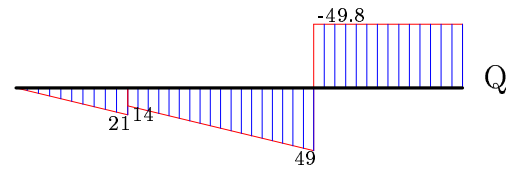
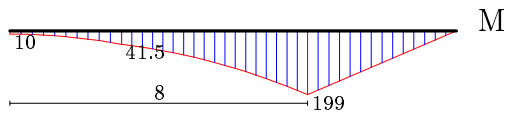
Задача 8.



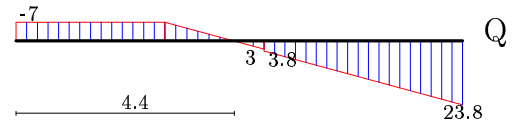
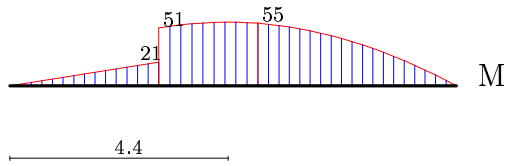
Задача 9.



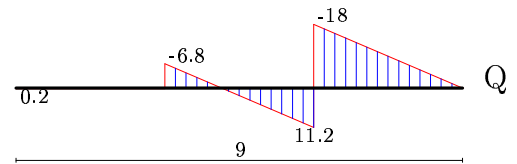
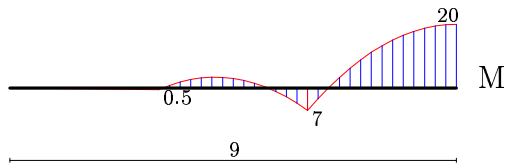
Задача 10.



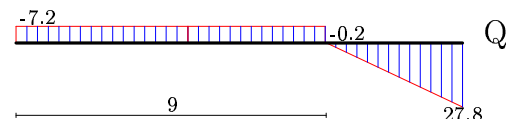
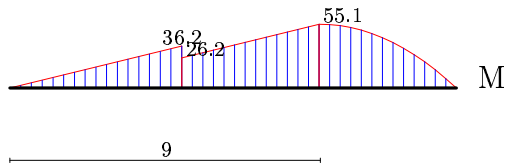
Задача 11.



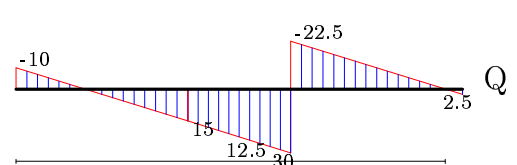
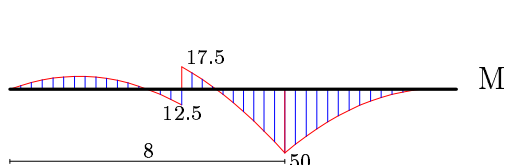
Задача 12.



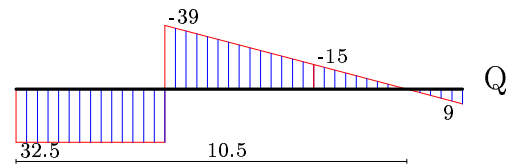
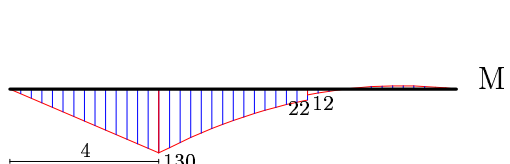
Задача 13.



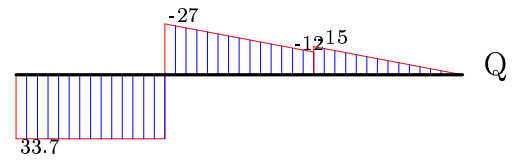
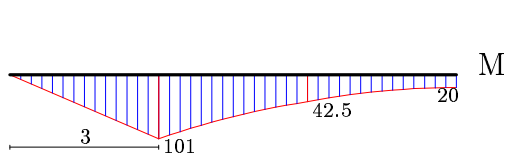
Задача 14.



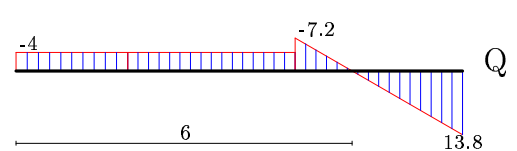
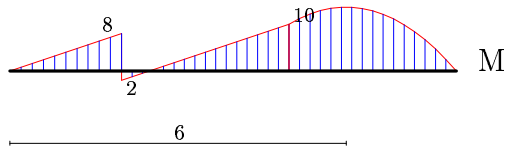
Задача 15.



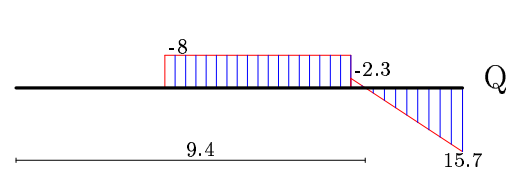
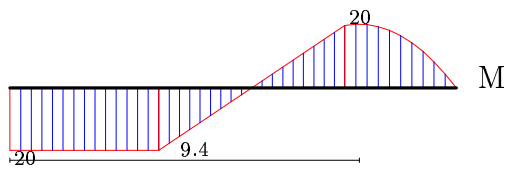
Задача 16.



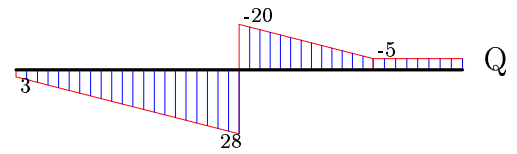
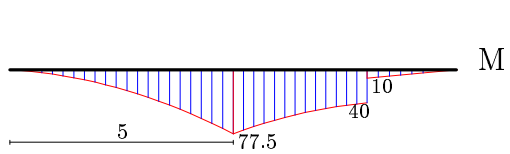
Задача 17.



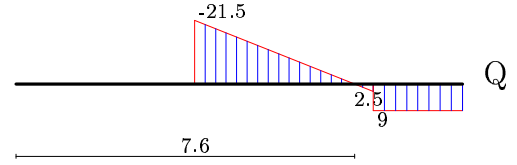
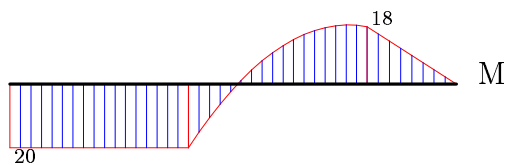
Задача 18.



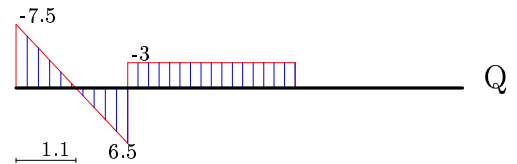
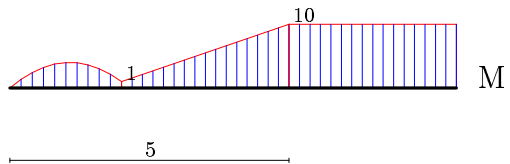
Задача 19.



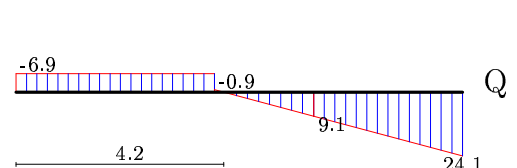
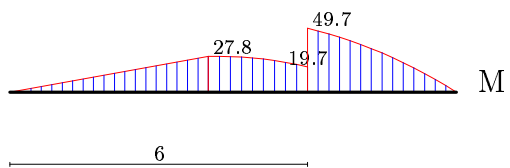
Задача 20.



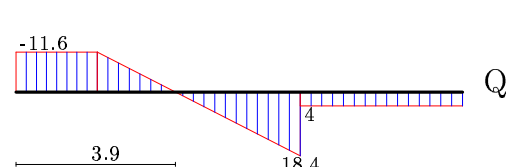
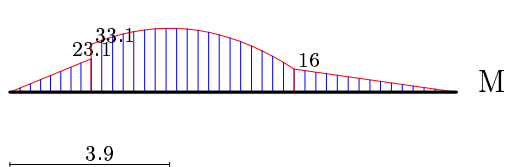
Задача 21.



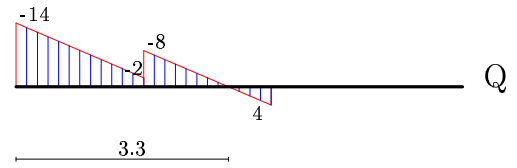
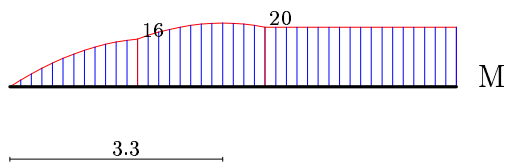
Задача 22.



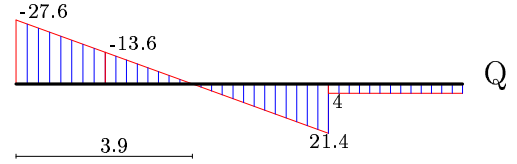
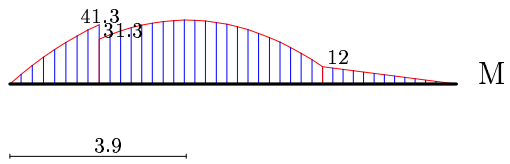
Задача 23.



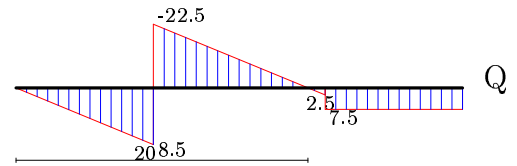
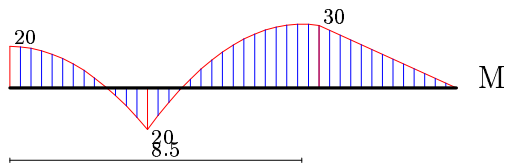
Задача 24.



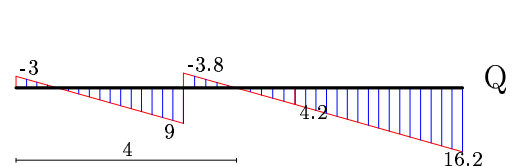
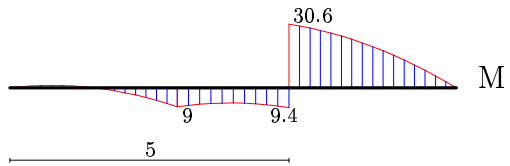
Задача 25.



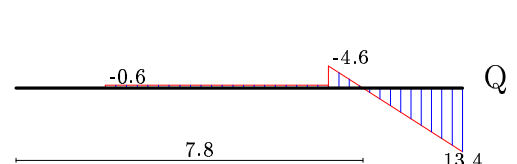
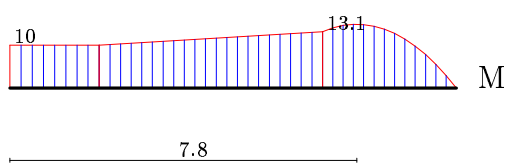
Задача 26.



Задача 27.



Задача 28.



M4 файл 4m111WB

N°	R_A	R_B	$\max M $	x_*	$EI\Delta y$
1	1.08	56.92	92.50	6.00	110.25
2	2.57	3.43	40.00	0.00	-77.71
3	34.00	-3.00	28.00	4.00	-165.33
4	-27.33	42.33	82.00	3.00	-547.50
5	-36.00	46.00	72.00	6.00	-0.00
6	-13.17	22.17	24.00	4.00	206.50
7	32.67	-14.67	24.00	4.00	-120.00
8	10.67	4.33	40.00	6.00	-208.50
9	19.50	5.50	17.16	4.79	176.00
10	98.75	-49.75	199.00	8.00	-2975.63
11	-0.75	23.75	55.90	4.40	935.00
12	-0.17	29.17	20.00	9.00	-3.37
13	7.23	27.77	55.08	9.03	-709.54
14	52.50	2.50	50.00	8.00	-726.67
15	-32.50	71.50	130.00	4.00	-3162.67
16	-33.67	60.67	101.00	3.00	-652.88
17	3.17	13.83	13.67	6.02	151.04
18	-5.67	15.67	20.45	9.39	217.08
19	48.00	-5.00	77.50	5.00	-1134.58
20	21.50	-6.50	20.00	0.00	77.33
21	7.50	9.50	10.00	5.00	27.00
22	6.94	24.06	49.67	6.00	-247.50
23	11.57	14.43	44.30	3.93	559.19
24	14.00	6.00	21.33	3.33	64.00
25	27.64	17.36	44.58	3.95	393.70
26	42.50	7.50	30.63	8.50	-220.83
27	12.80	16.20	30.60	5.00	12.00
28	0.63	13.38	14.91	7.77	-93.91