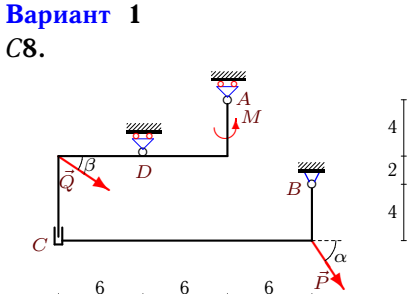
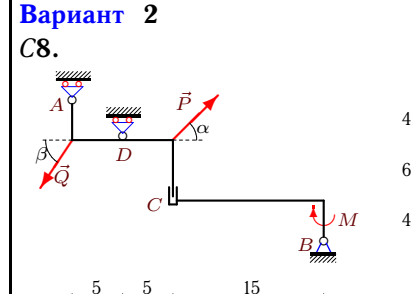
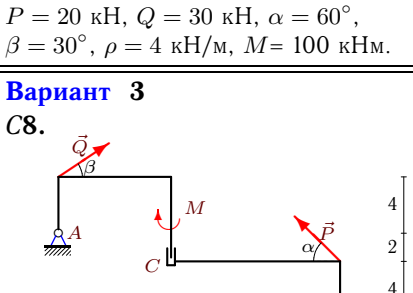
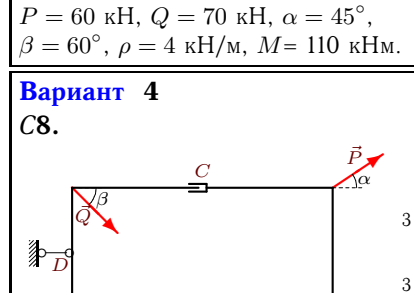
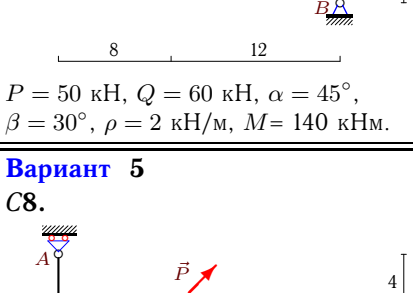
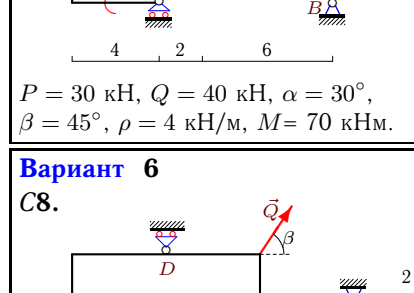
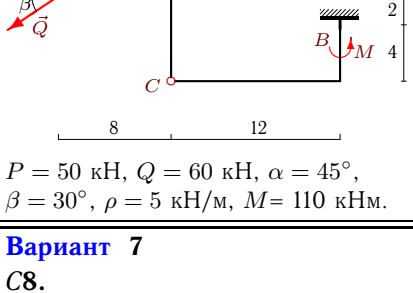
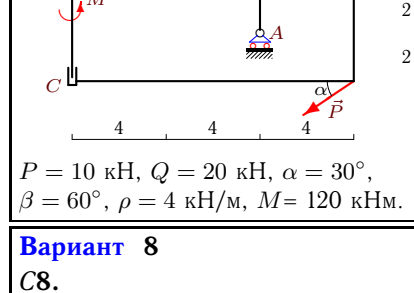
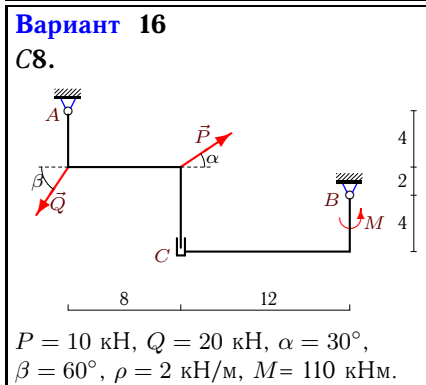
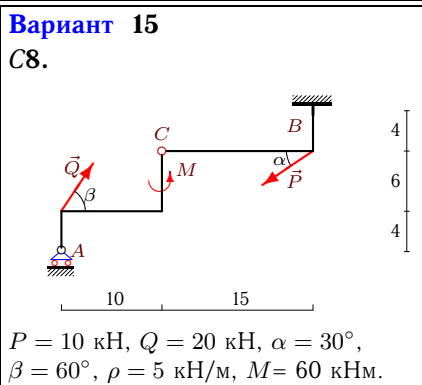
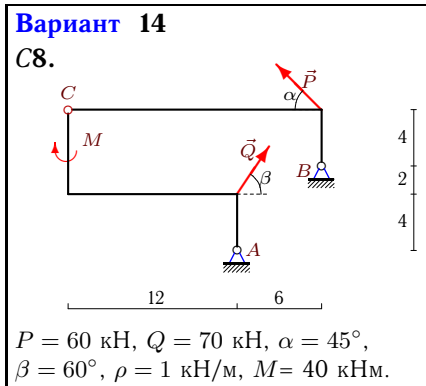
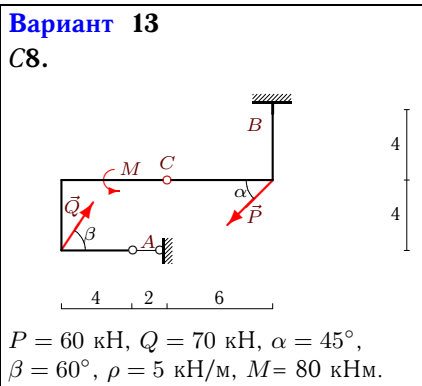
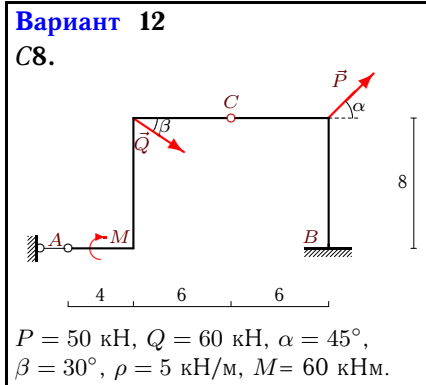
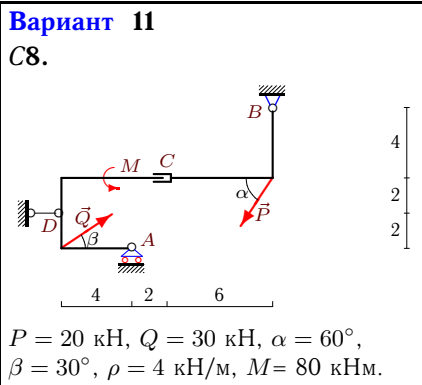
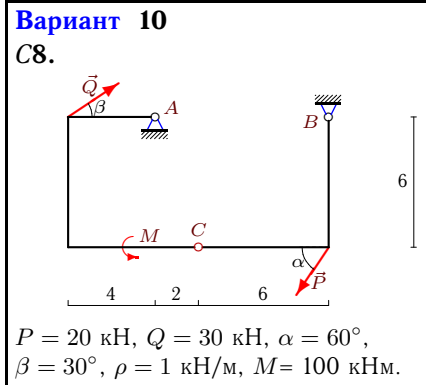
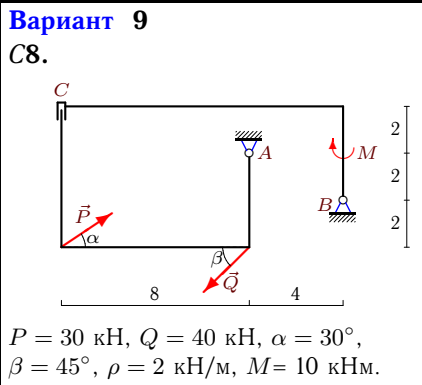


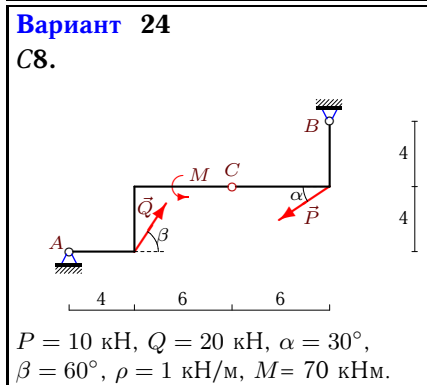
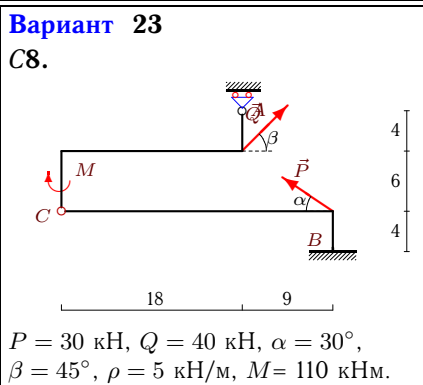
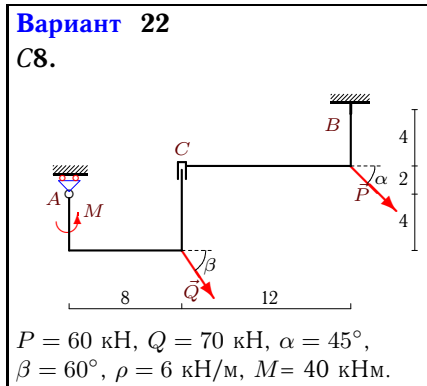
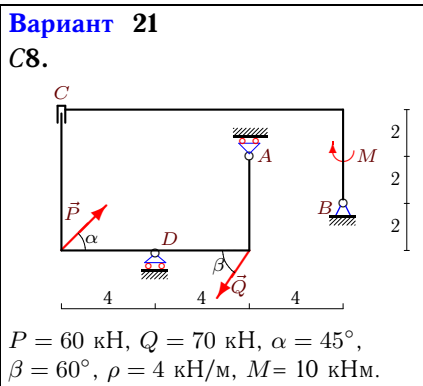
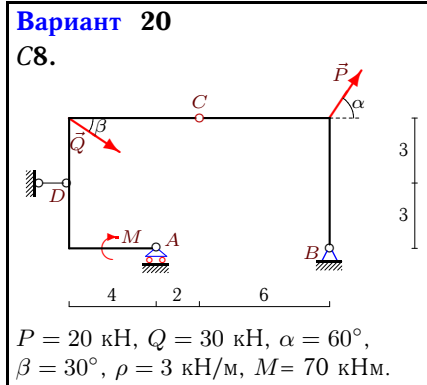
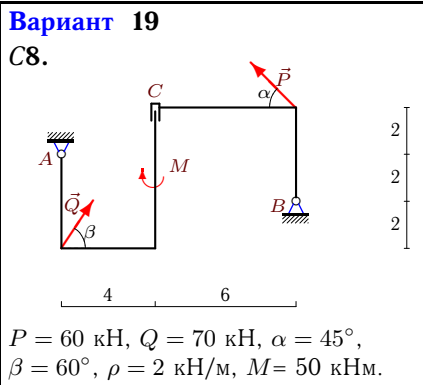
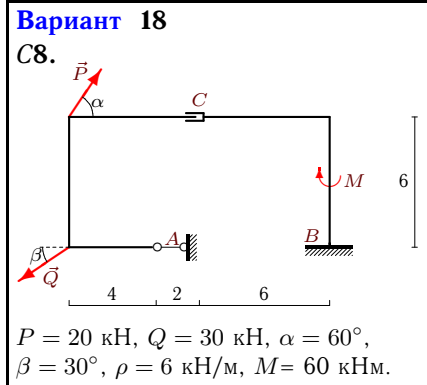
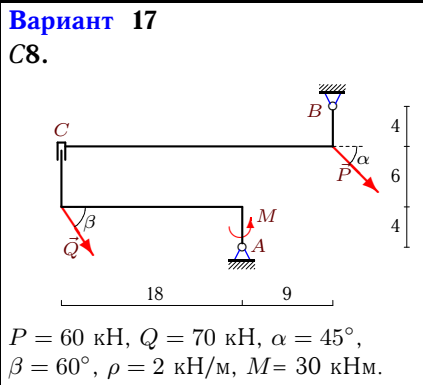
Расчет составной конструкции

Рама состоит из двух частей, соединенных шарниром или скользящей заделкой. Дан погонный вес рамы ρ , размеры в метрах и нагрузки. Найти реакции опор.

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<p>Вариант 1 С8.</p>  <p>$P = 20 \text{ кН}, Q = 30 \text{ кН}, \alpha = 60^\circ,$ $\beta = 30^\circ, \rho = 4 \text{ кН/м}, M = 100 \text{ кНм}.$</p>	<p>Вариант 2 С8.</p>  <p>$P = 60 \text{ кН}, Q = 70 \text{ кН}, \alpha = 45^\circ,$ $\beta = 60^\circ, \rho = 4 \text{ кН/м}, M = 110 \text{ кНм}.$</p>
<p>Вариант 3 С8.</p>  <p>$P = 50 \text{ кН}, Q = 60 \text{ кН}, \alpha = 45^\circ,$ $\beta = 30^\circ, \rho = 2 \text{ кН/м}, M = 140 \text{ кНм}.$</p>	<p>Вариант 4 С8.</p>  <p>$P = 30 \text{ кН}, Q = 40 \text{ кН}, \alpha = 30^\circ,$ $\beta = 45^\circ, \rho = 4 \text{ кН/м}, M = 70 \text{ кНм}.$</p>
<p>Вариант 5 С8.</p>  <p>$P = 50 \text{ кН}, Q = 60 \text{ кН}, \alpha = 45^\circ,$ $\beta = 30^\circ, \rho = 5 \text{ кН/м}, M = 110 \text{ кНм}.$</p>	<p>Вариант 6 С8.</p>  <p>$P = 10 \text{ кН}, Q = 20 \text{ кН}, \alpha = 30^\circ,$ $\beta = 60^\circ, \rho = 4 \text{ кН/м}, M = 120 \text{ кНм}.$</p>
<p>Вариант 7 С8.</p>  <p>$P = 60 \text{ кН}, Q = 70 \text{ кН}, \alpha = 45^\circ,$ $\beta = 60^\circ, \rho = 3 \text{ кН/м}, M = 90 \text{ кНм}.$</p>	<p>Вариант 8 С8.</p>  <p>$P = 50 \text{ кН}, Q = 60 \text{ кН}, \alpha = 45^\circ,$ $\beta = 30^\circ, \rho = 3 \text{ кН/м}, M = 40 \text{ кНм}.$</p>





Вариант 25
С8.

$P = 30 \text{ кН}, Q = 40 \text{ кН}, \alpha = 30^\circ,$
 $\beta = 45^\circ, \rho = 3 \text{ кН/м}, M = 70 \text{ кНм}.$

Вариант 26
С8.

$P = 40 \text{ кН}, Q = 50 \text{ кН}, \alpha = 60^\circ,$
 $\beta = 45^\circ, \rho = 2 \text{ кН/м}, M = 30 \text{ кНм}.$

Вариант 27
С8.

$P = 60 \text{ кН}, Q = 70 \text{ кН}, \alpha = 45^\circ,$
 $\beta = 60^\circ, \rho = 2 \text{ кН/м}, M = 20 \text{ кНм}.$

Вариант 28
С8.

$P = 20 \text{ кН}, Q = 30 \text{ кН}, \alpha = 60^\circ,$
 $\beta = 30^\circ, \rho = 6 \text{ кН/м}, M = 130 \text{ кНм}.$

Вариант 29
С8.

$P = 60 \text{ кН}, Q = 70 \text{ кН}, \alpha = 45^\circ,$
 $\beta = 60^\circ, \rho = 4 \text{ кН/м}, M = 130 \text{ кНм}.$

Вариант 30
С8.

$P = 40 \text{ кН}, Q = 50 \text{ кН}, \alpha = 60^\circ,$
 $\beta = 45^\circ, \rho = 1 \text{ кН/м}, M = 90 \text{ кНм}.$

Ответы

	X_A	Y_A	X_B	Y_B	X_D	Y_D	M_B
1	—	-145.67	-35.98	105.32	—	248.67	—
2	—	148.2	-7.43	76	—	-50	—
3	-89.03	6	72.43	-3.36	—	—	—
4	—	95.58	-25.98	29.7	-28.28	—	—
5	—	82.45	16.6	82.2	—	—	-429.86
6	—	-113.66	-1.34	69	—	168.34	—
7	—	70.82	-7.43	32.35	—	47.02	—
8	—	18.69	16.6	36.26	—	56.7	—
9	84.7	49.28	-82.4	32	—	—	—
10	-14.48	5.5	-1.5	24.82	—	—	—
11	—	69	10	29.33	-25.98	—	—
12	-76.25	—	-11.07	154.64	—	—	-721.47
13	-36.57	—	44	101.8	—	—	29.7
14	-60.25	-14.58	67.67	-44.46	—	—	—
15	—	39.68	-1.34	143	—	—	-1212.86
16	22.78	48.32	-21.44	32	—	—	—
17	-207.85	116.62	130.42	104.43	—	—	—
18	15.98	—	0	165.68	—	—	-956.15
19	80.85	-32.62	-73.43	-22.43	—	—	—
20	—	67.61	-4.39	14.07	-31.6	—	—
21	—	21.83	-7.43	64	—	68.36	—
22	—	168.62	-77.43	138.43	—	—	-26.73
23	—	52.25	-2.3	199.46	—	—	-3418.73
24	27.88	19.16	-29.22	-7.48	—	—	—
25	—	65.74	16.66	43.54	-14.35	—	—
26	212.36	0.64	-227.71	-2.64	—	—	—
27	-16.29	62.2	8.86	44	—	—	—
28	—	105	-15.98	96.68	—	—	334.8
29	—	-40.68	7.43	33.57	—	60.06	—
30	-7.16	31.71	22.52	13	—	—	—