

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
Київський національний університет будівництва і архітектури

Кафедра опору матеріалів

20__ - 20__ навчальний рік

РОЗРАХУНКОВО-ГРАФІЧНА РОБОТА №

(назва роботи)

Шифр _____

Факультет _____

Курс _____

Група _____

Студент (П.І.Б.) _____

Керівник (П.І.Б.) _____

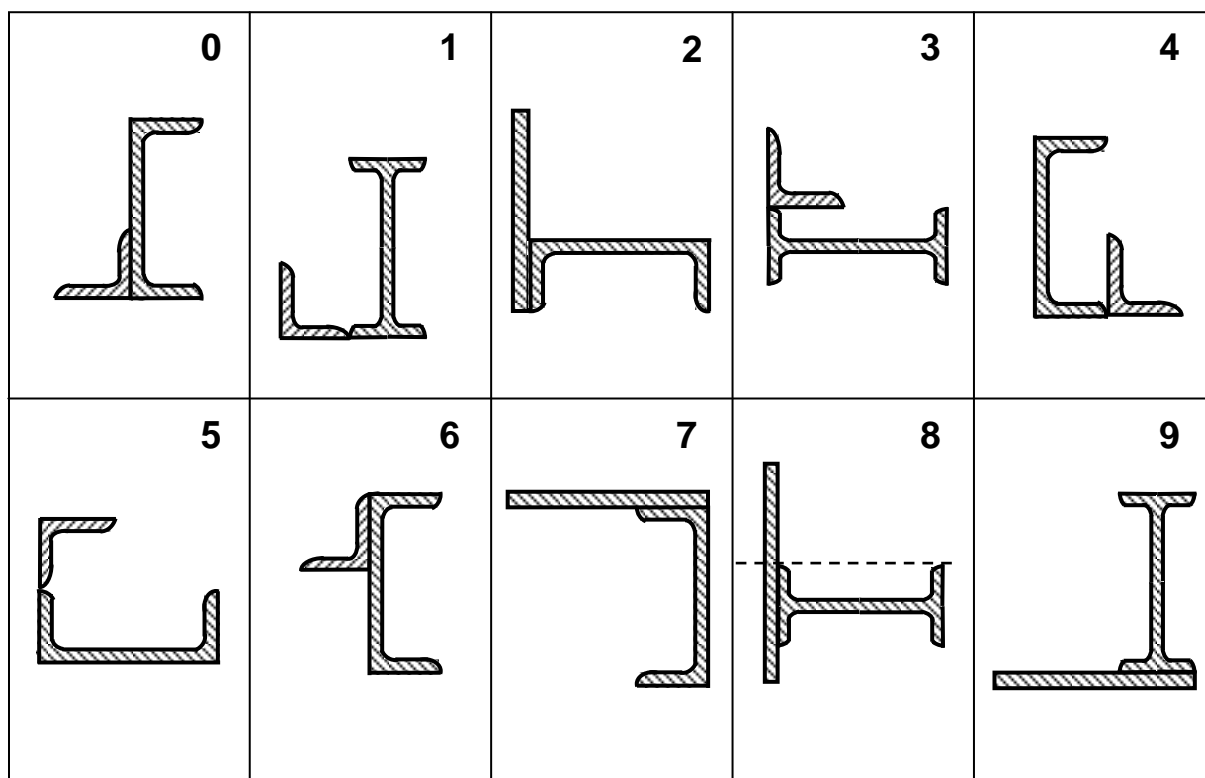
Дата здачі завдання _____

Оцінка _____

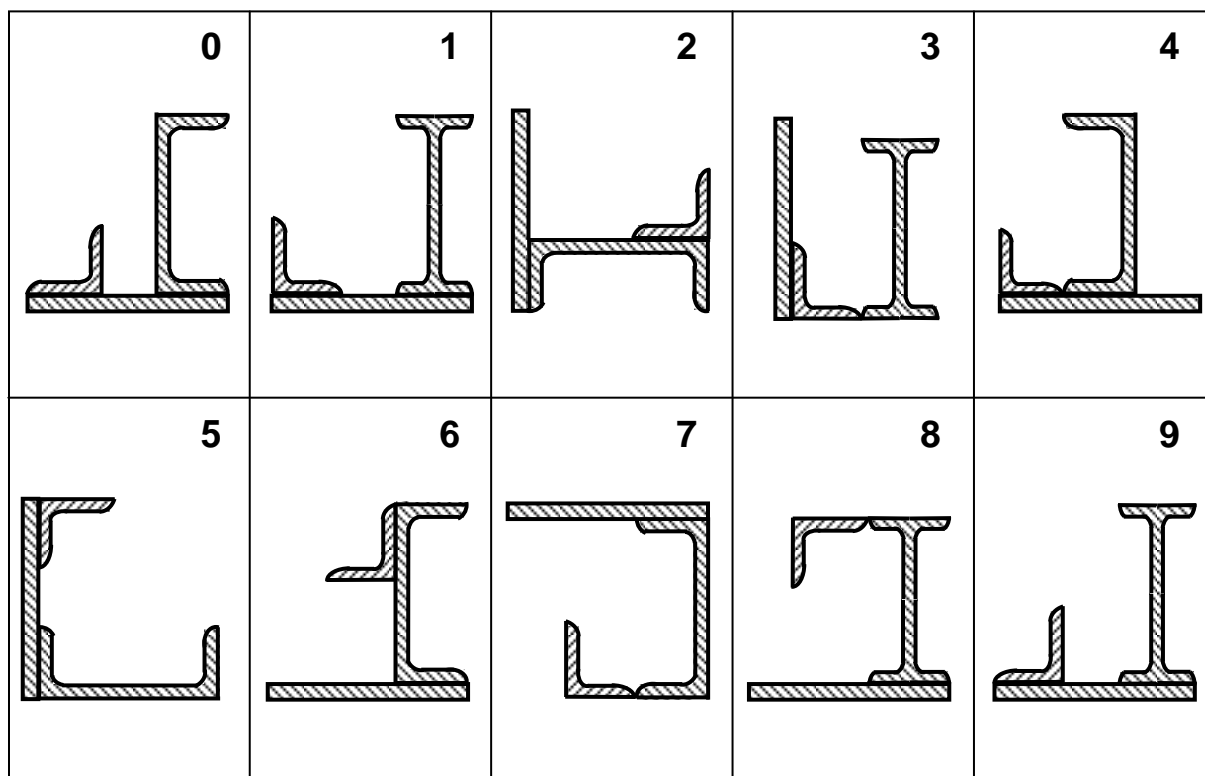
Цифра шифру	Числові значення по цифрах шифру для додатків 2,3				
	третя	перша		друга	
	№ схеми	№ двотавра*	№ швелера*	розміри листа, мм	розміри кутика*, мм
0	0	16	20а	220х10	160х16
1	1	18	20	220х12	160х10
2	2	18а	18а	240х14	150х12
3	3	20	18	240х16	150х10
4	4	20а	16а	280х16	140х10
5	5	22	16	280х20	125х14
6	6	22а	24а	300х16	125х10
7	7	24	24	300х20	120х10
8	8	24а	22а	340х18	120х8
9	9	27	22	340х22	110х8

*Сортамент прокатної сталі береться по ГОСТ 8509–72

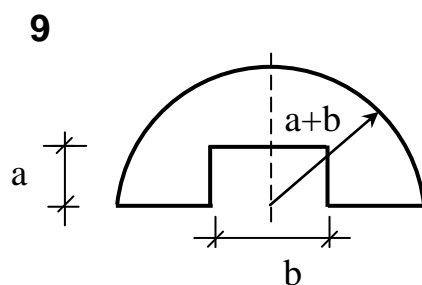
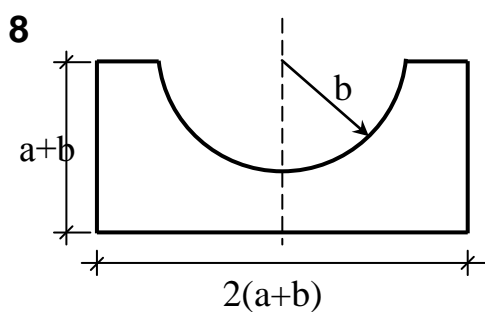
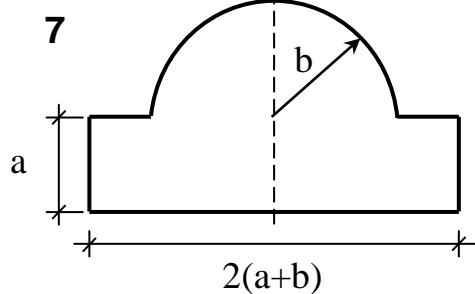
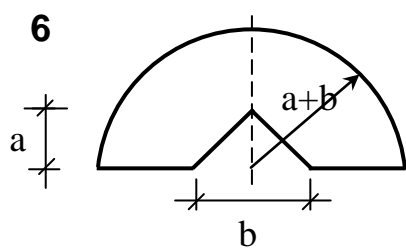
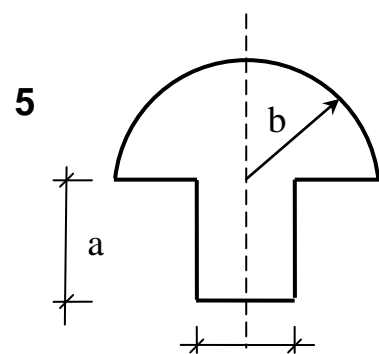
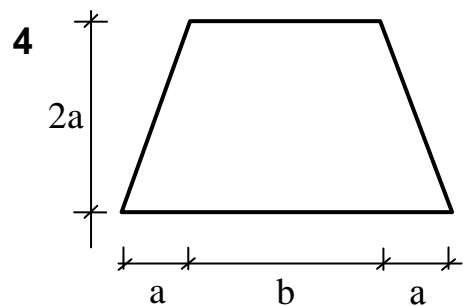
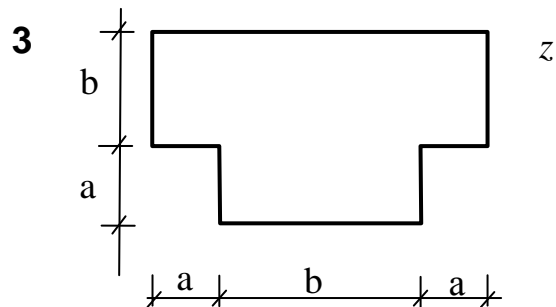
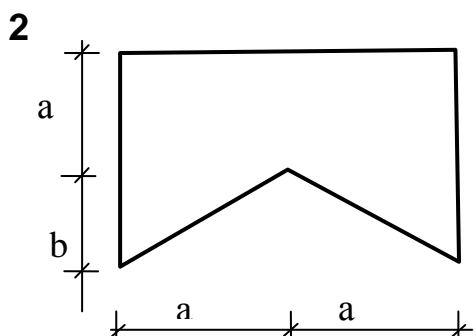
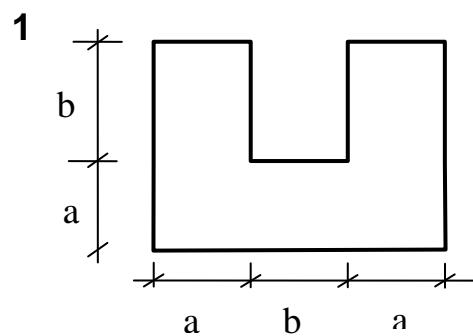
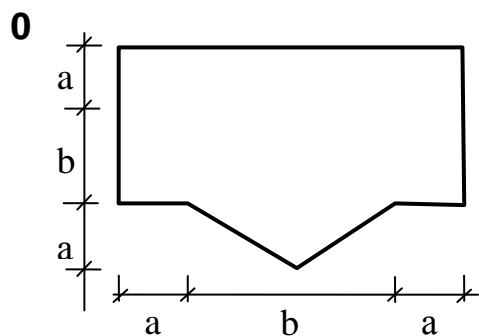
Додаток 2



Додаток 3

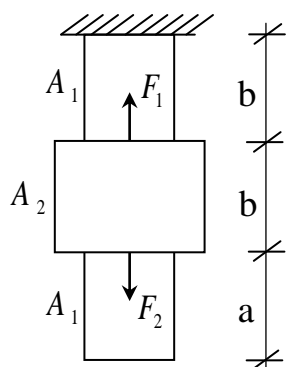


Додаток 4

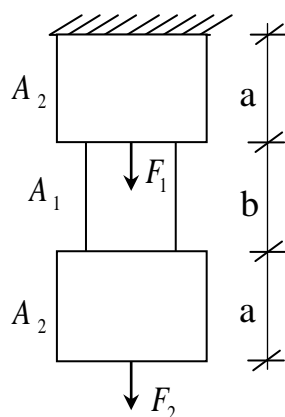


* розміри a , b задаються в сантиметрах згідно до свого шифру: a дорівнює сумі двох перших цифр шифру, b дорівнює сумі другої і третьої цифр шифру, номер схеми береться по третій цифрі шифру.

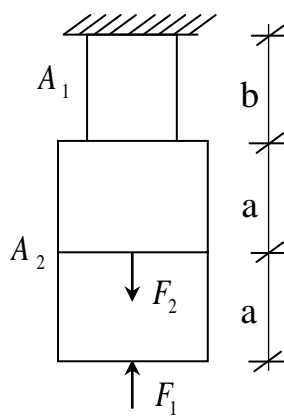
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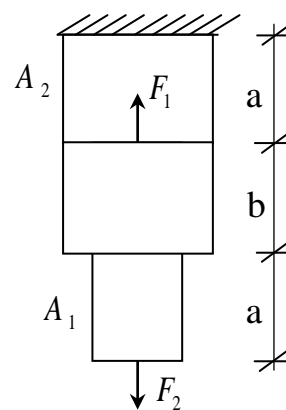
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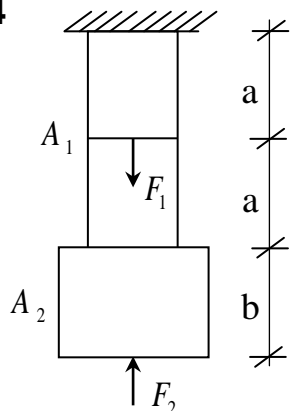
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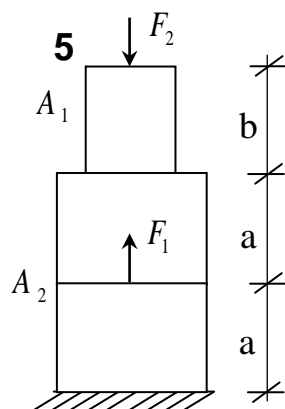
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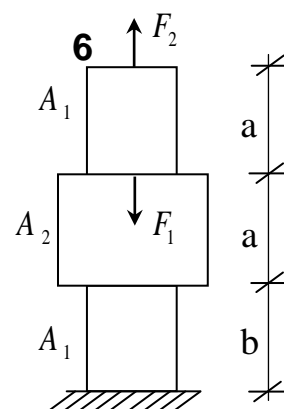
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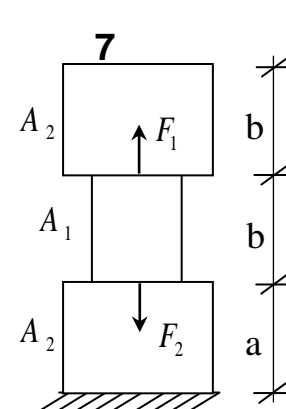
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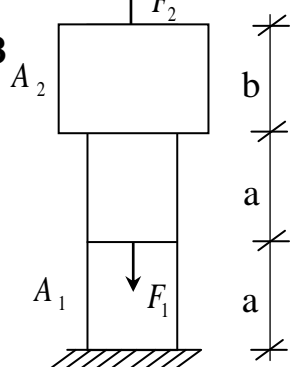
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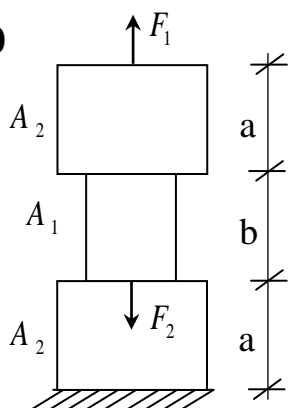
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8



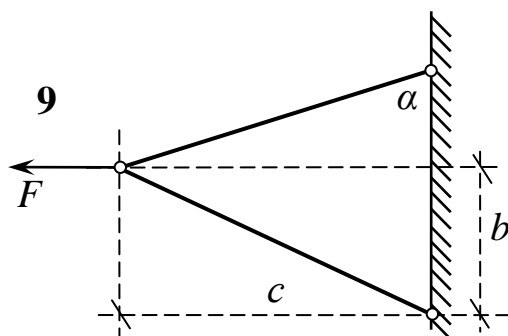
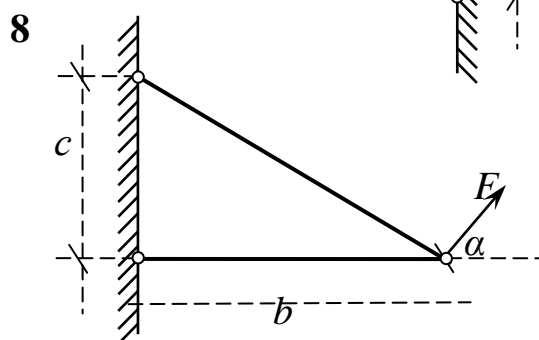
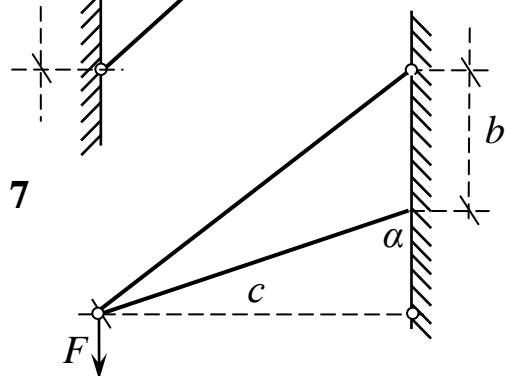
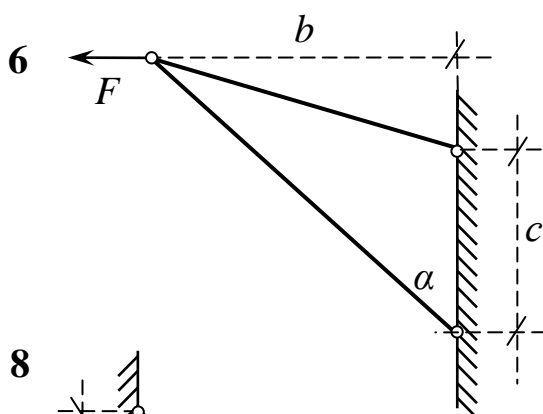
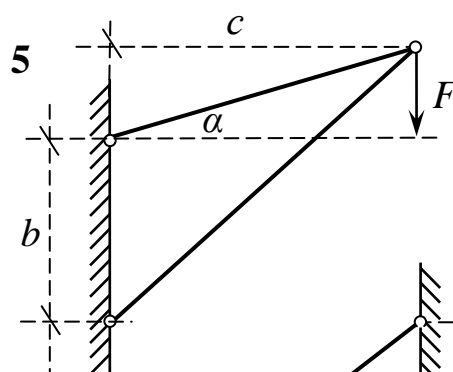
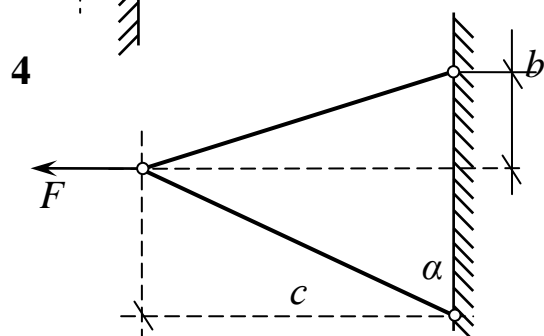
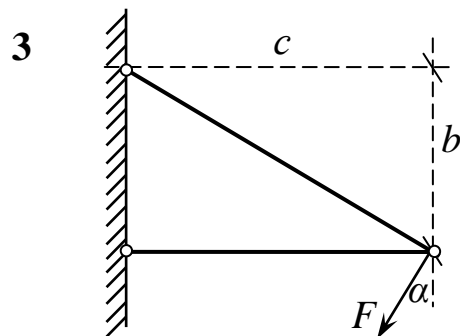
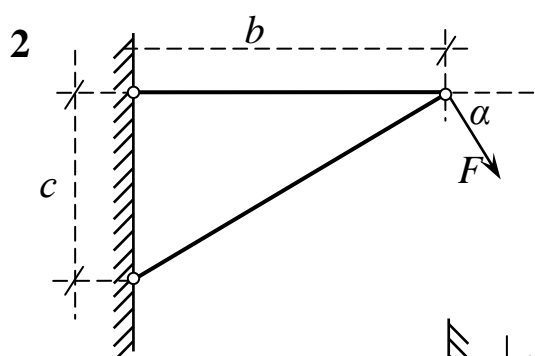
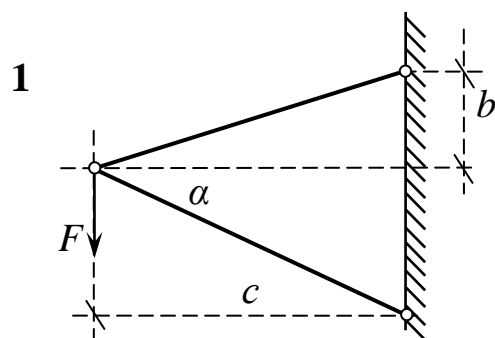
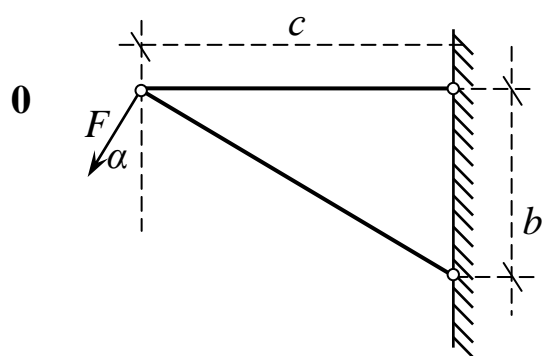
9



Цифра шифру	Числові значення по цифрах шифру					
	перша				друга	
	a, м	b, м	A ₁ , м ²	A ₂ , м ²	F ₁ , кН	F ₂ , кН
0	0,5	1,0	0,3	0,4	120	230
1	1,0	0,5	0,2	0,3	240	150
2	1,0	2,0	0,3	0,4	180	310
3	2,0	1,5	0,3	0,5	350	170
4	1,5	1,0	0,2	0,5	190	260
5	1,0	2,0	0,4	0,5	270	180
6	2,0	1,5	0,2	0,4	210	130
7	1,0	0,5	0,4	0,6	290	110
8	0,5	1,0	0,3	0,4	140	210
9	1,0	1,5	0,3	0,5	220	150

Номер схеми береться по третій цифрі шифру

Додаток 6



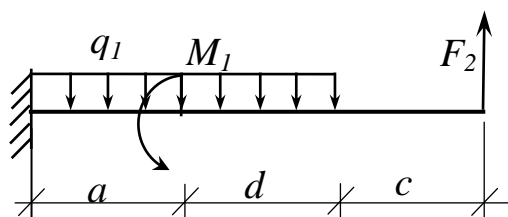
Загальні дані для додатку 6

Цифра шифру	Числові значення по цифрах шифру				
	перша		друга		третья
	c, м	F, кН	b, м	$\alpha, ^\circ$	№ схеми
0	3	10	4	30	0
1	2	12	5	45	1
2	4	14	2	60	2
3	5	15	3	30	3
4	3	16	4	45	4
5	2	18	5	60	5
6	4	20	2	30	6
7	5	11	3	45	7
8	3	13	4	60	8
9	4	17	5	30	9

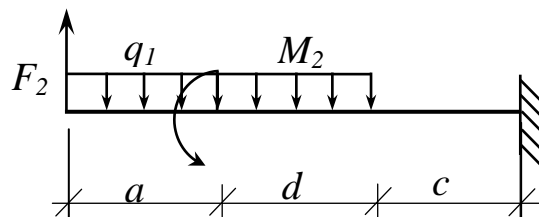
Загальні дані для додатків 7-17

Цифра шифру	Числові значення по цифрах шифру										
	перша					друга					третья
	a, м	d, м	F_1 , кН	M_1 , кНм	q_1 , кН/ м	b, м	c, м	F_2 , кН	M_2 , кНм	q_2 , кН/м	№ схеми, кут α
0	4	2	10	15	3	3	2	5	22	4	0, 30°
1	2	3	12	16	4	4	3	6	21	5	1, 45°
2	4	1	14	17	5	1	4	7	20	6	2, 60°
3	3	1	16	18	6	2	1	8	19	7	3, 45°
4	1	4	18	19	7	3	2	9	18	8	4, 30°
5	3	3	20	20	8	4	3	10	17	4	5, 45°
6	4	1	22	21	9	1	4	11	16	4	6, 60°
7	2	4	24	22	10	2	1	12	15	5	7, 30°
8	2	3	15	23	11	3	2	13	14	6	8, 60°
9	1	4	17	24	12	4	3	14	13	7	9, 30°

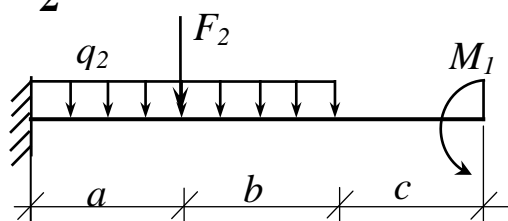
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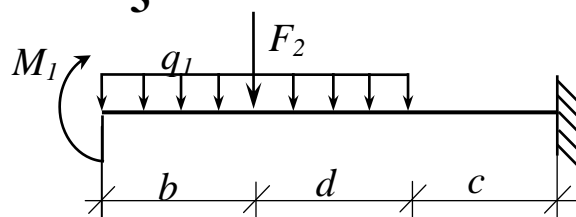
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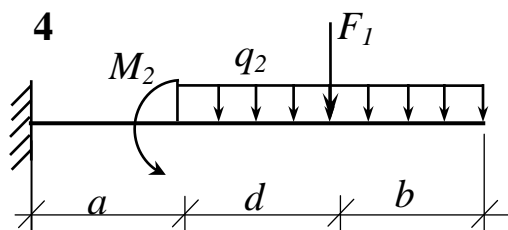
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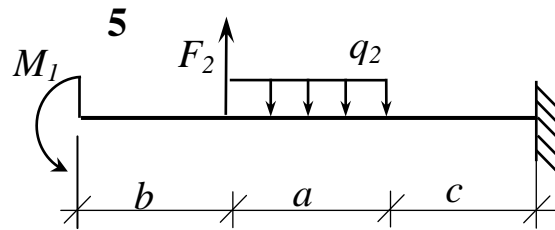
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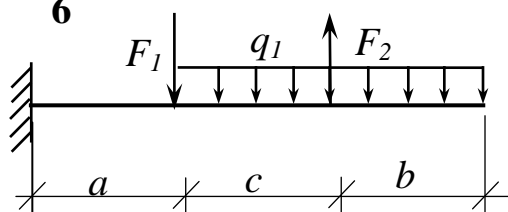
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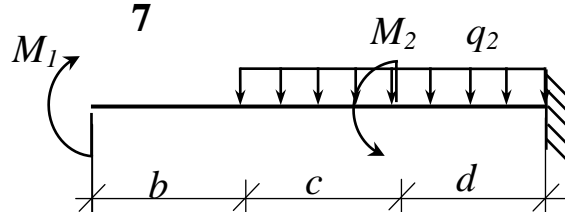
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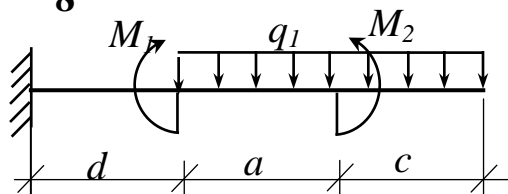
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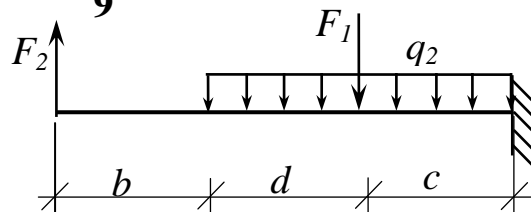
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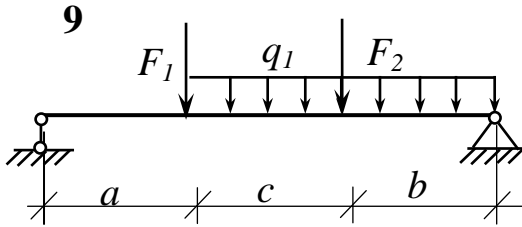
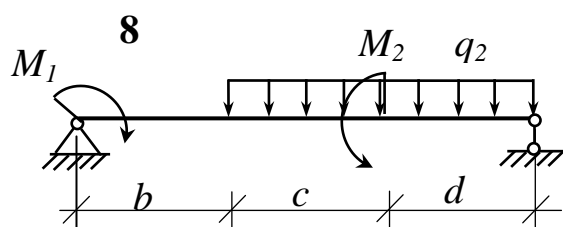
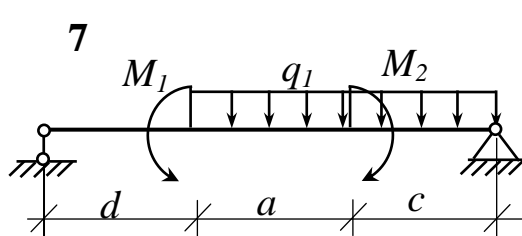
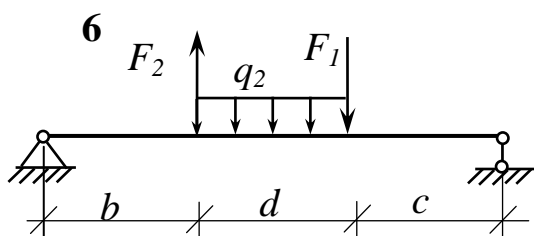
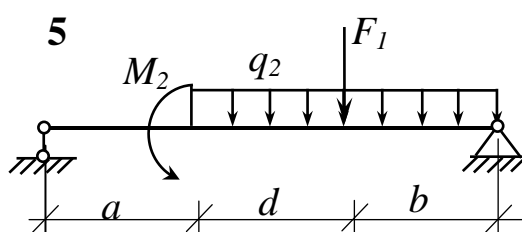
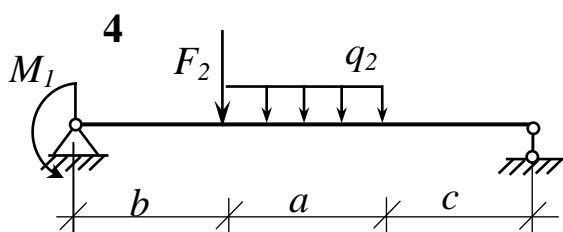
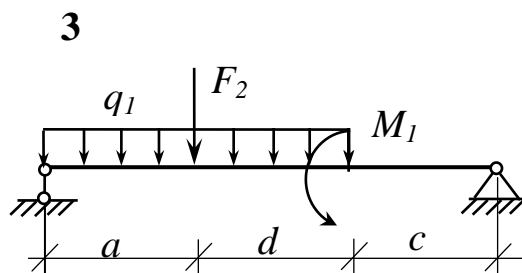
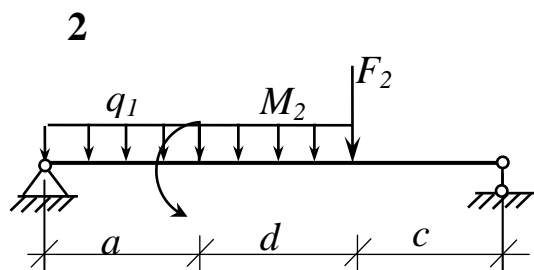
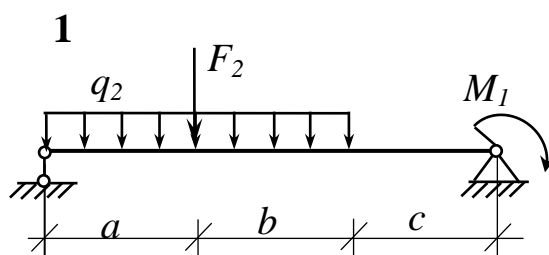
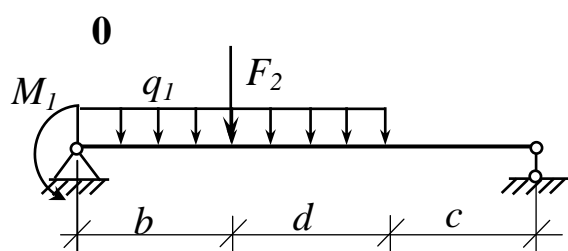


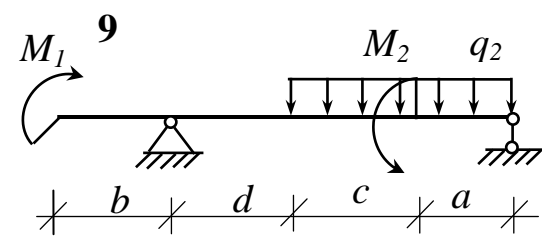
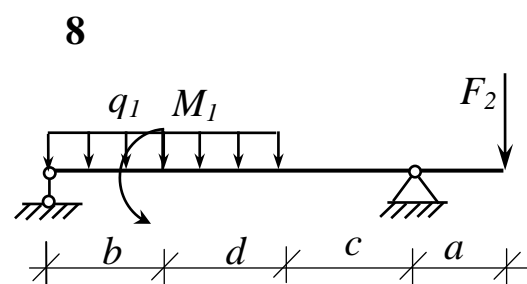
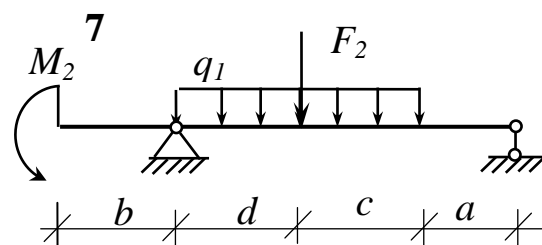
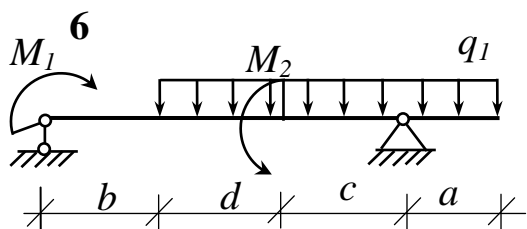
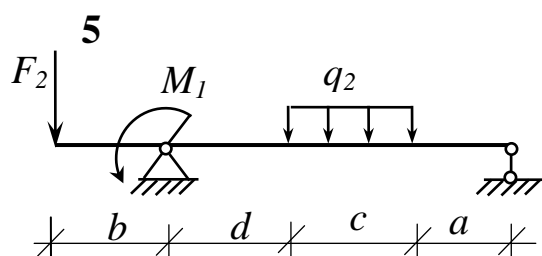
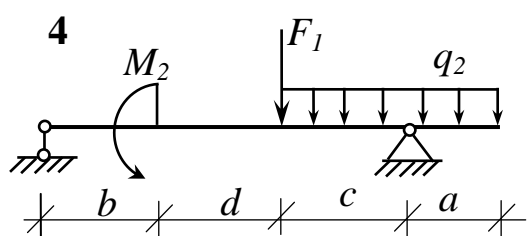
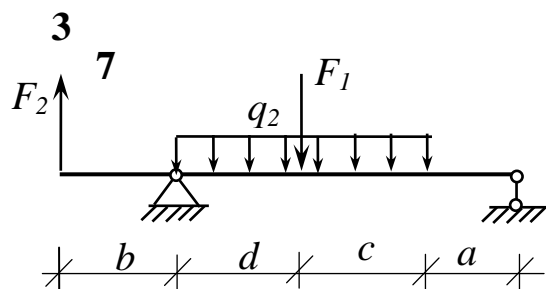
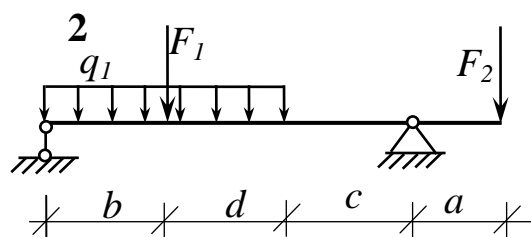
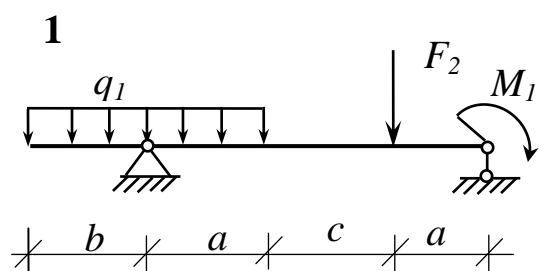
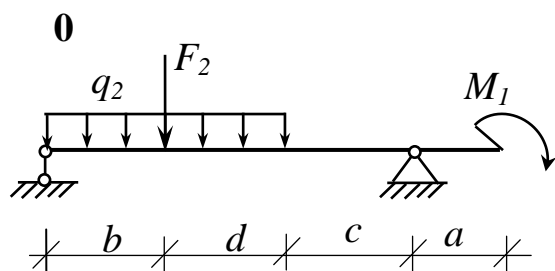
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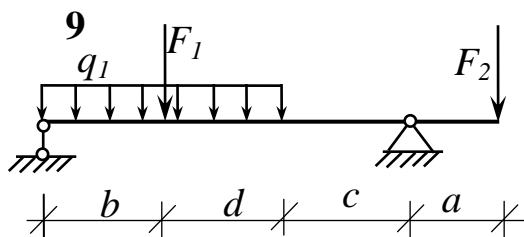
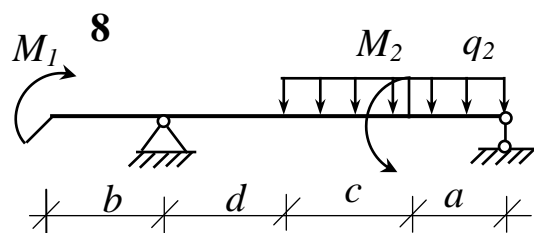
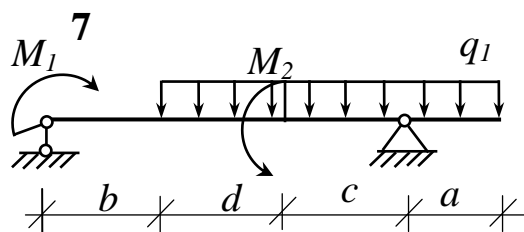
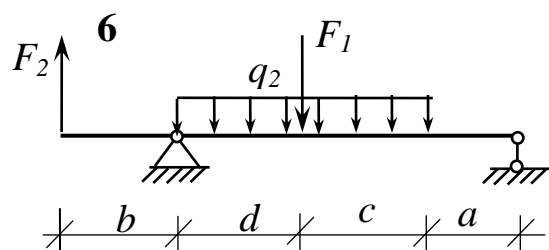
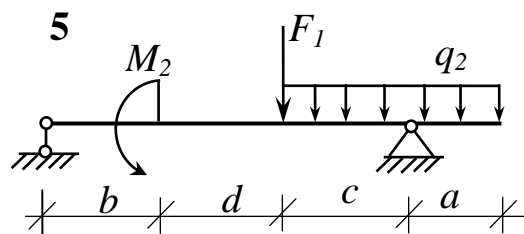
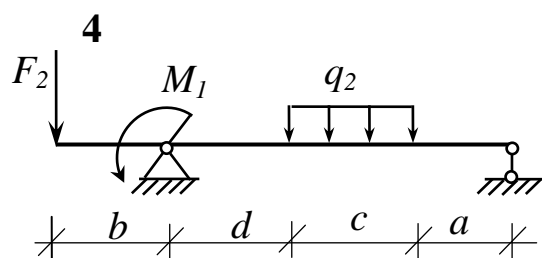
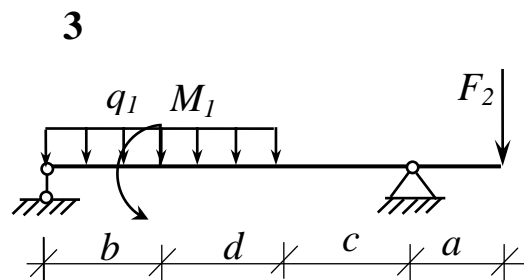
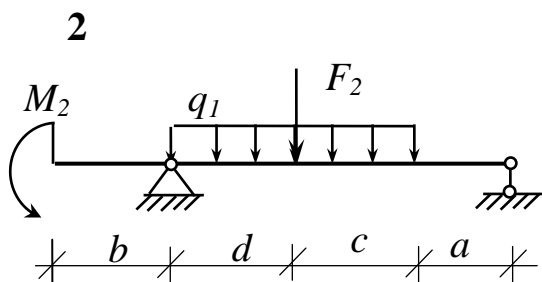
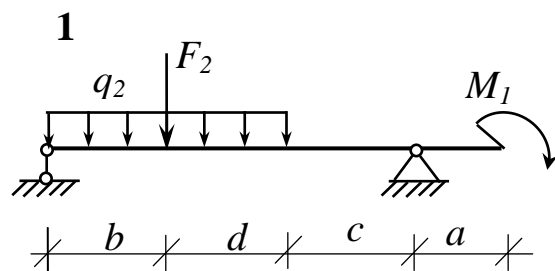
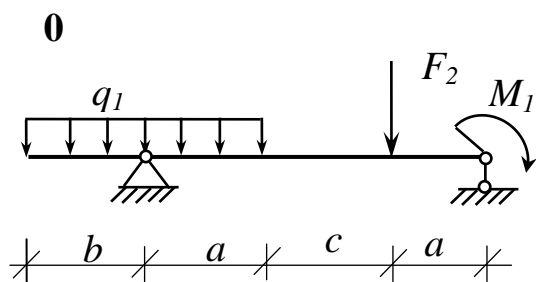


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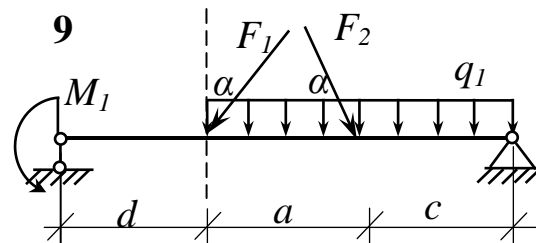
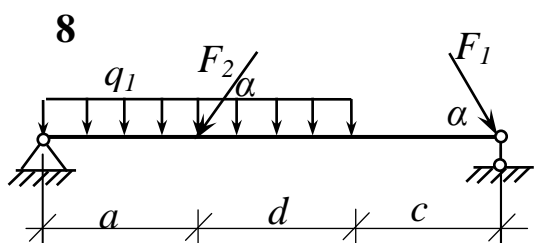
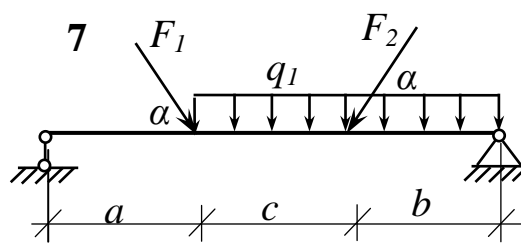
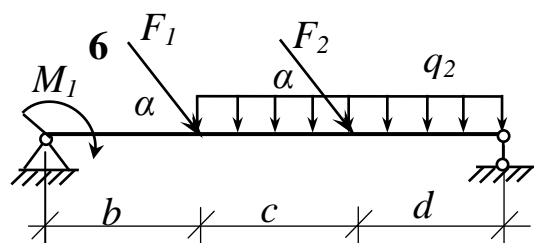
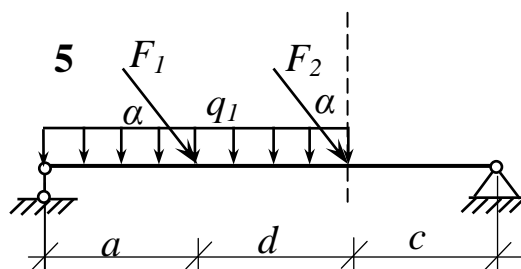
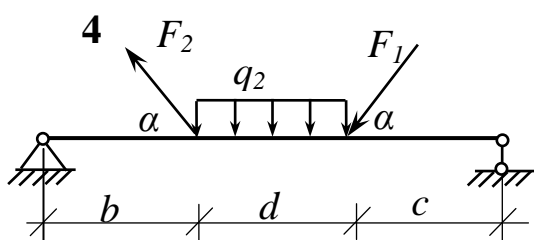
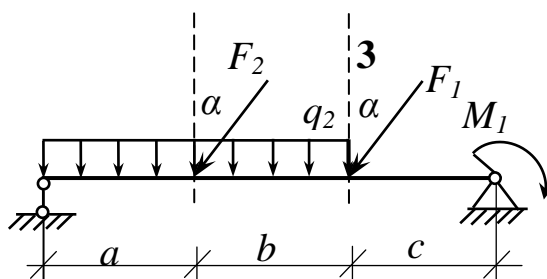
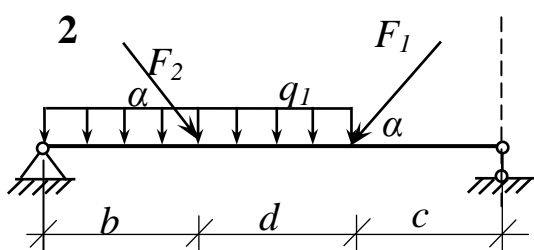
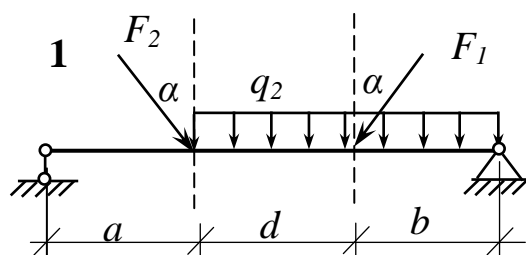
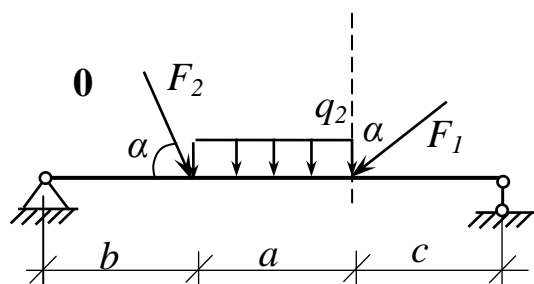


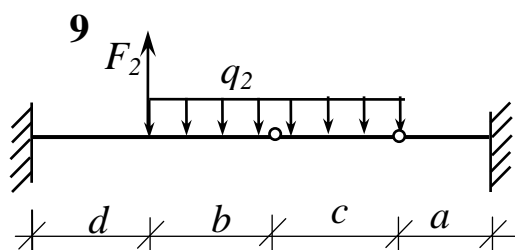
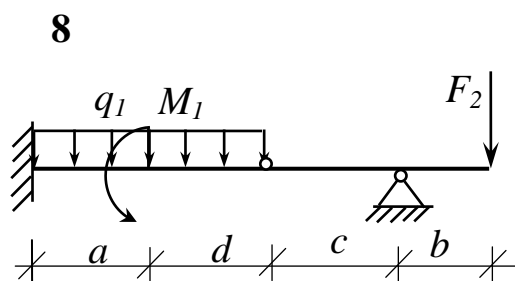
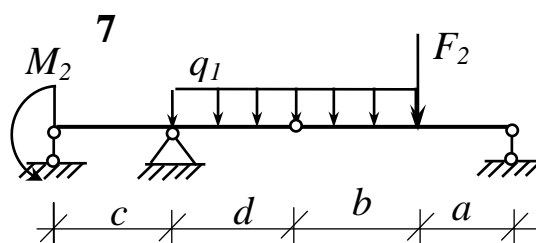
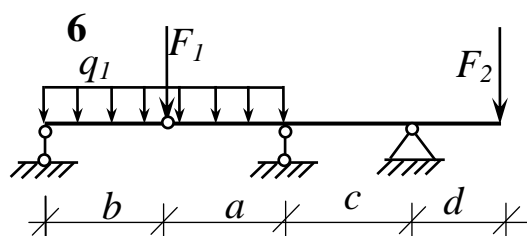
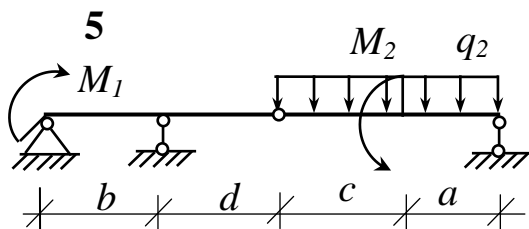
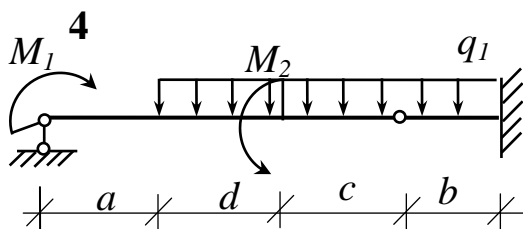
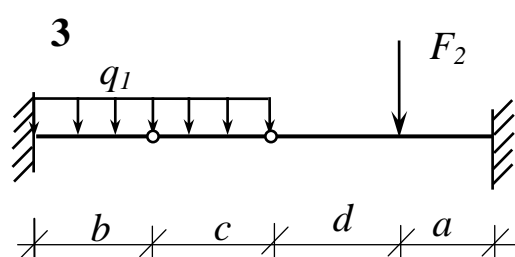
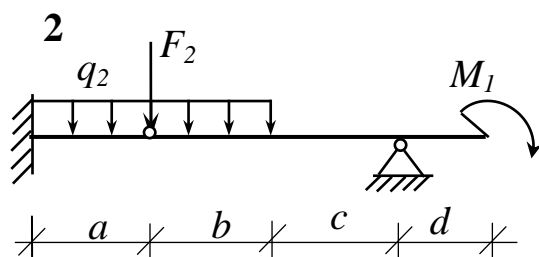
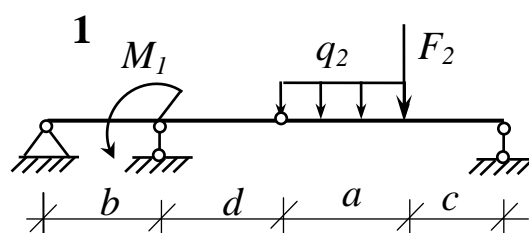
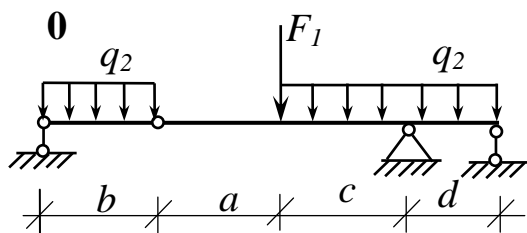


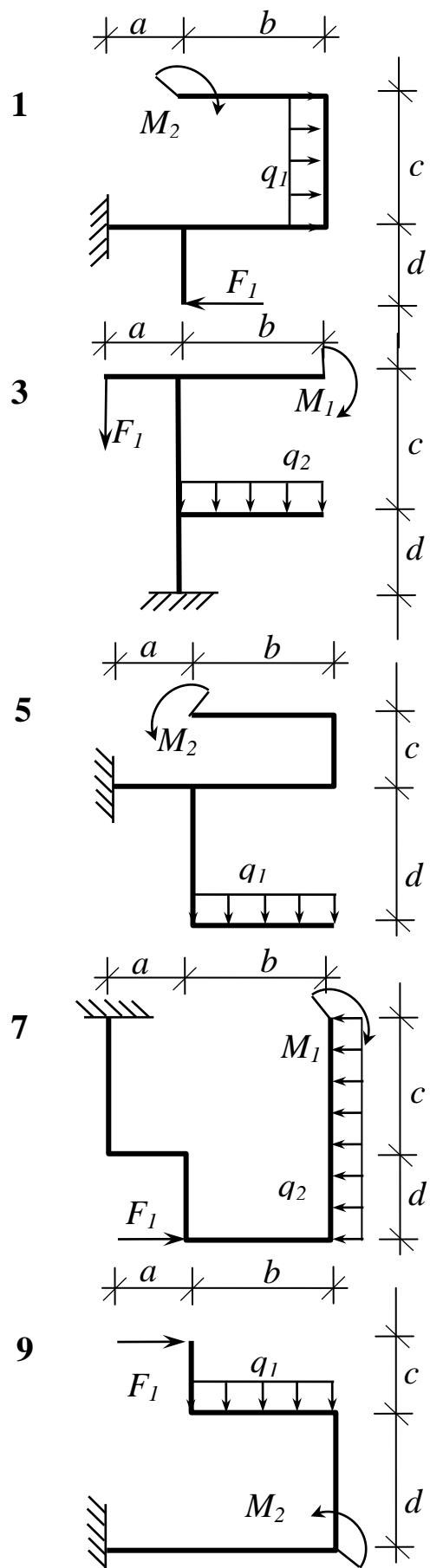
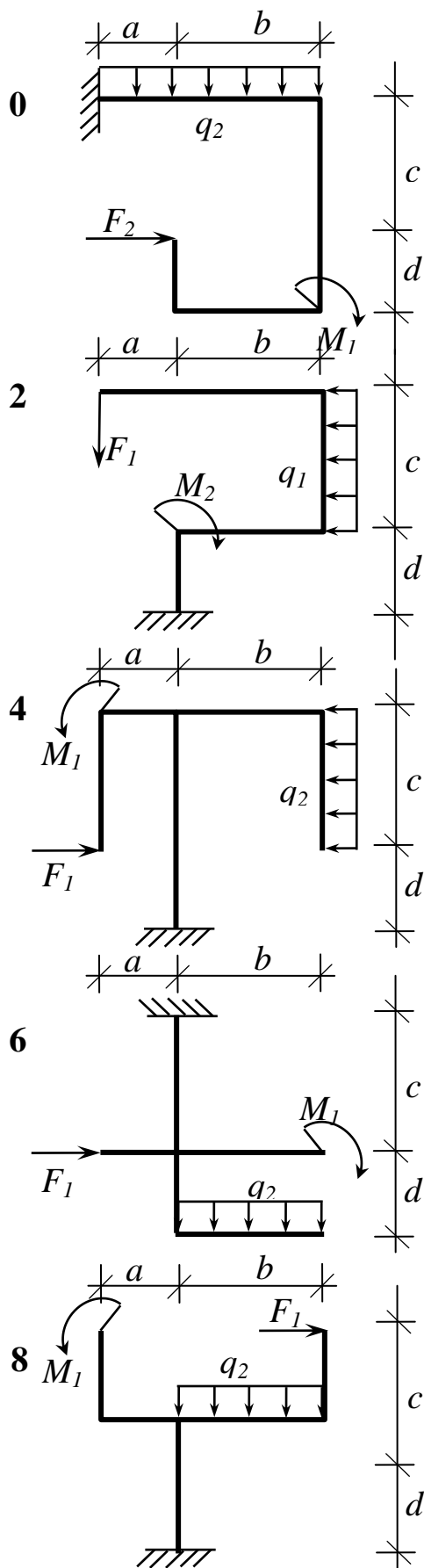


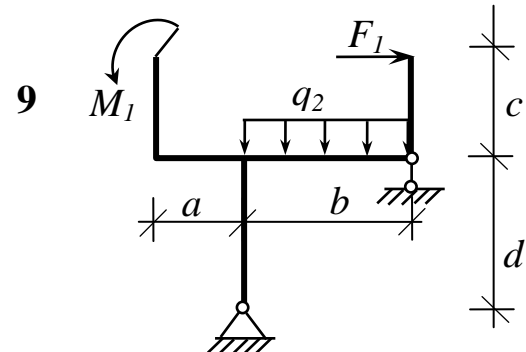
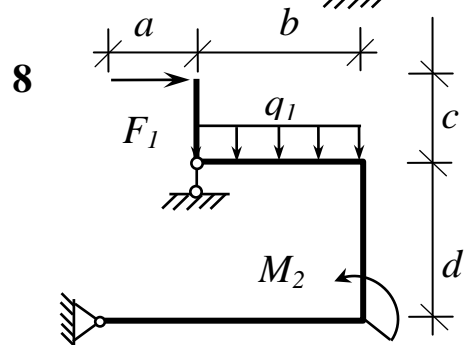
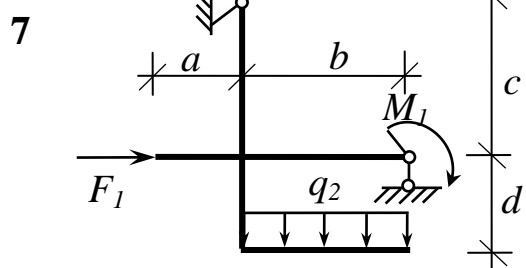
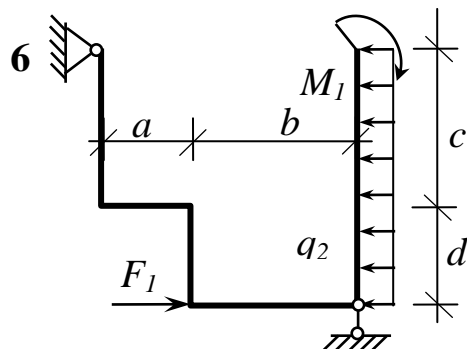
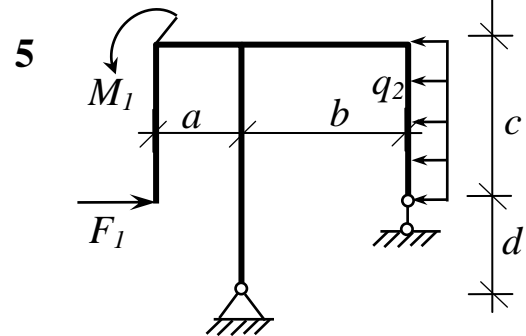
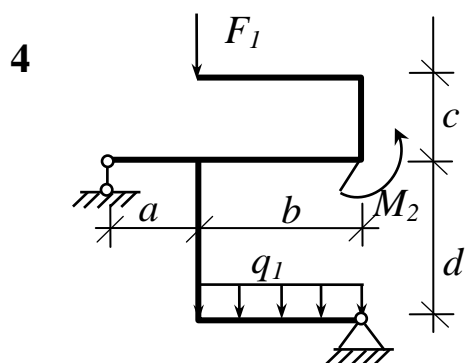
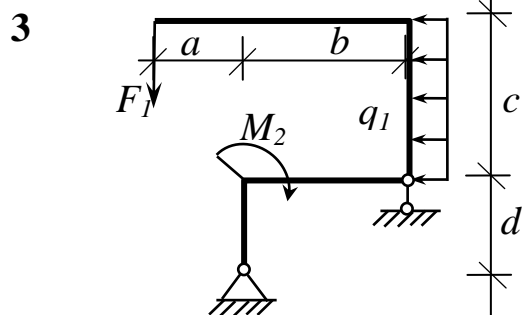
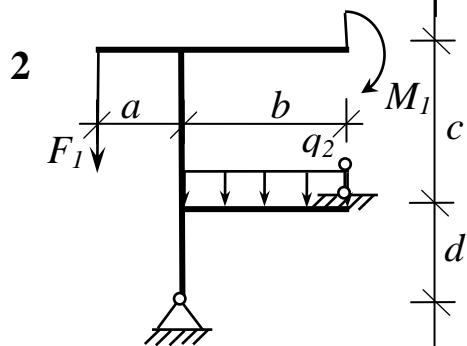
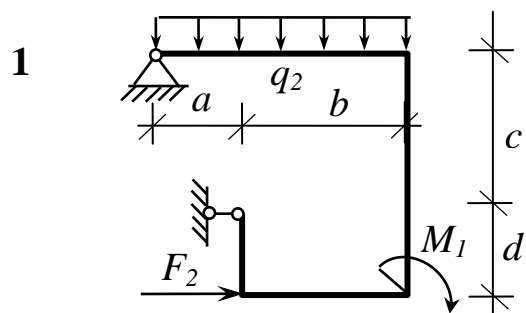
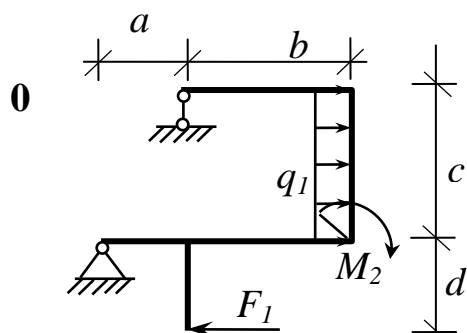


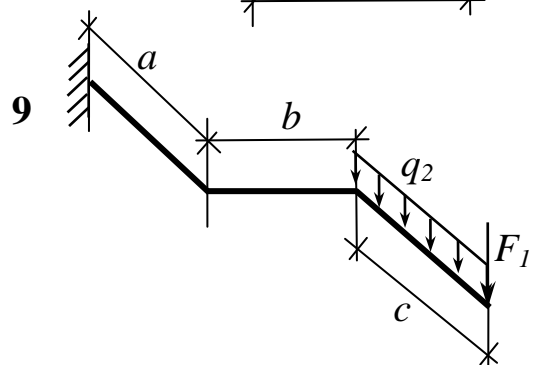
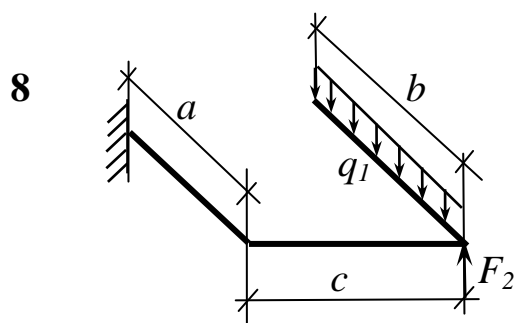
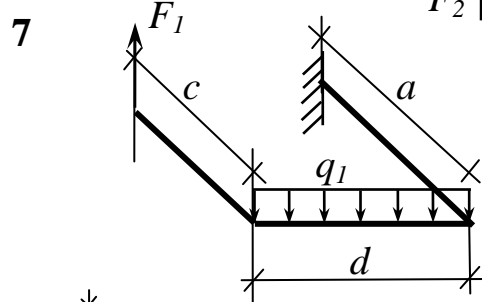
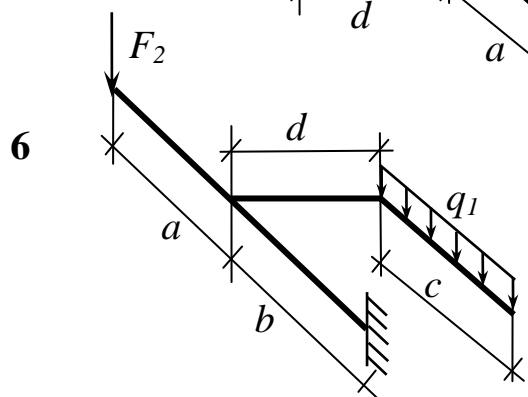
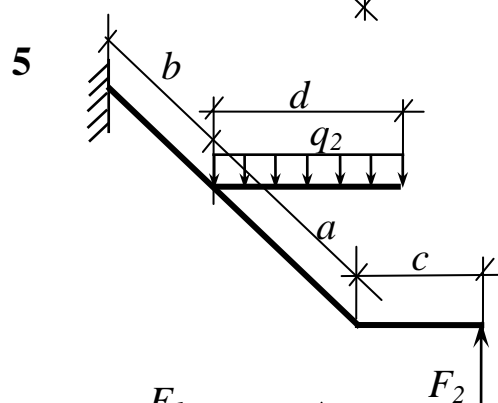
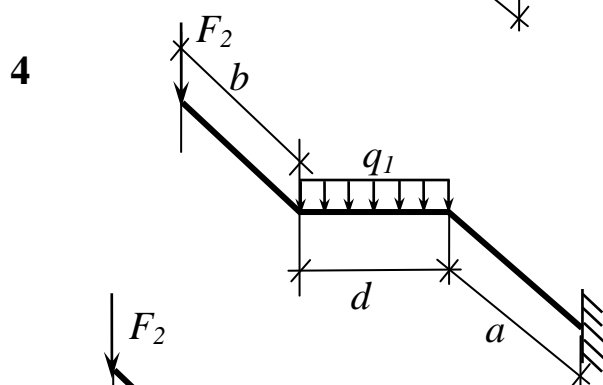
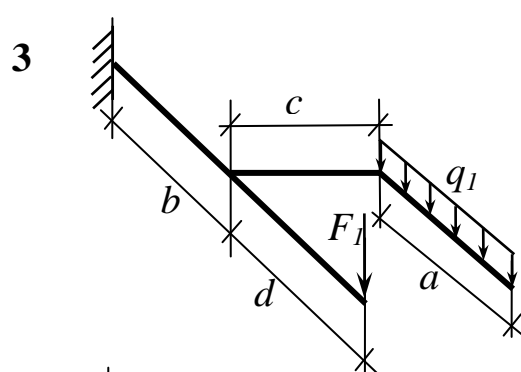
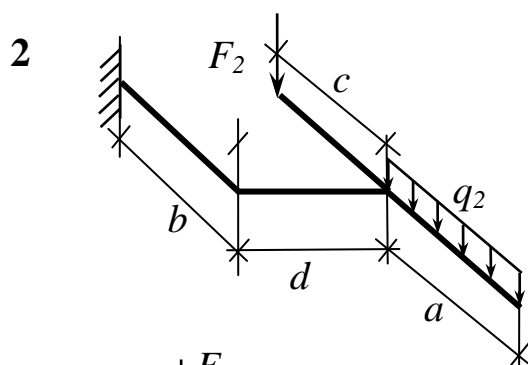
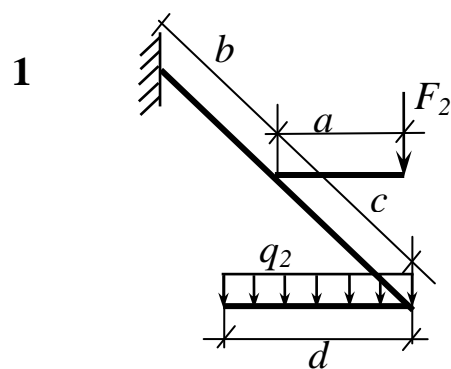
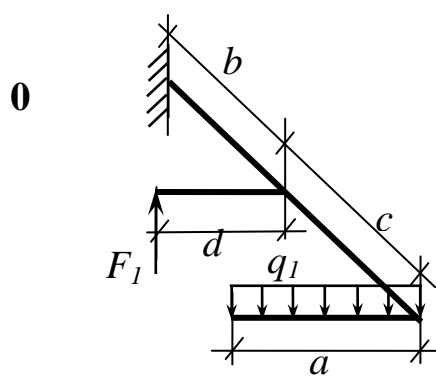
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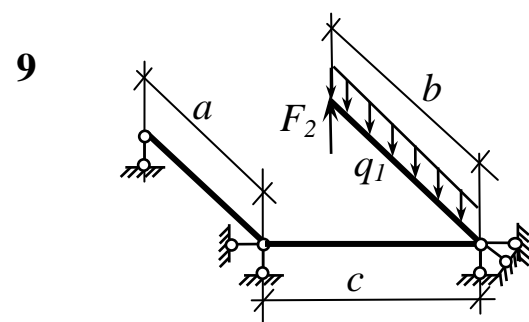
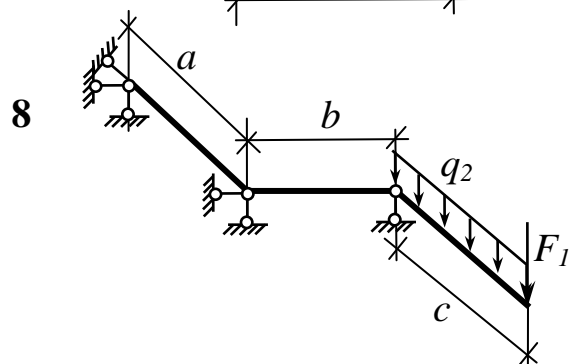
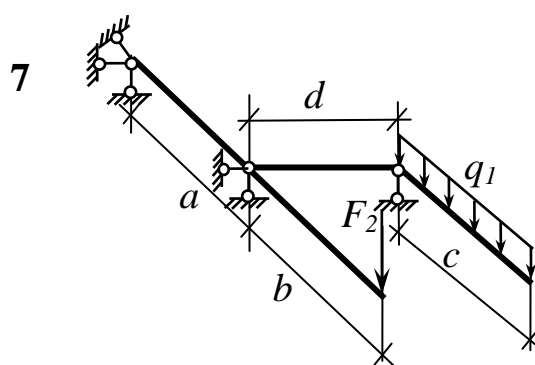
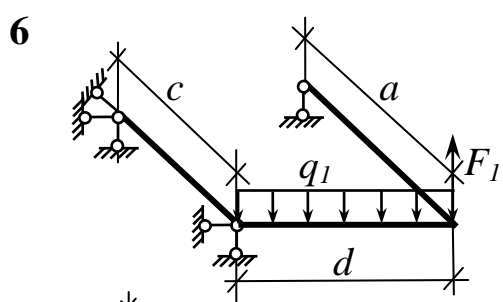
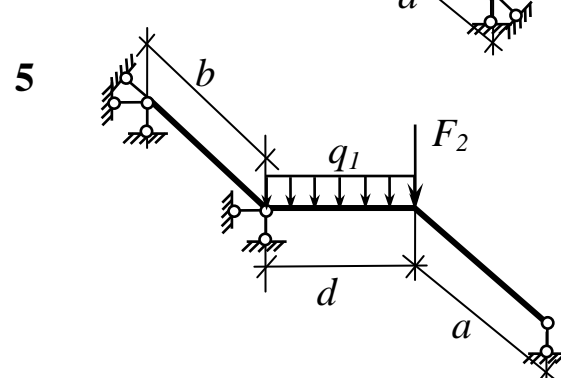
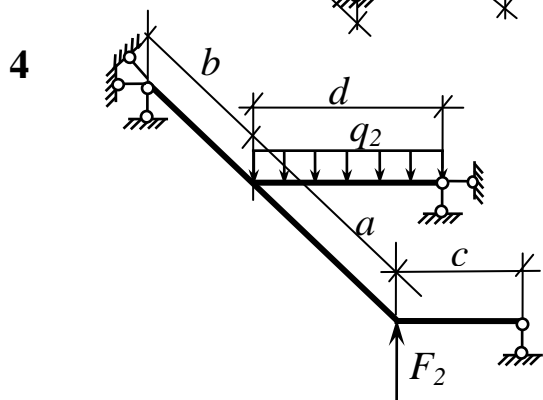
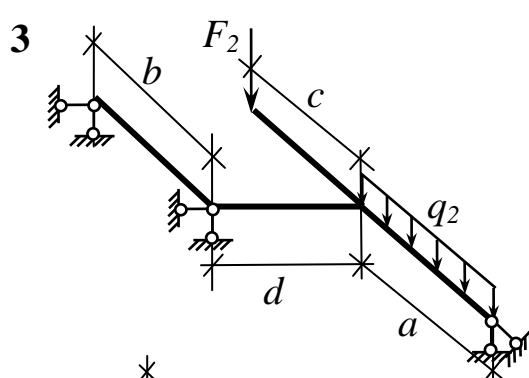
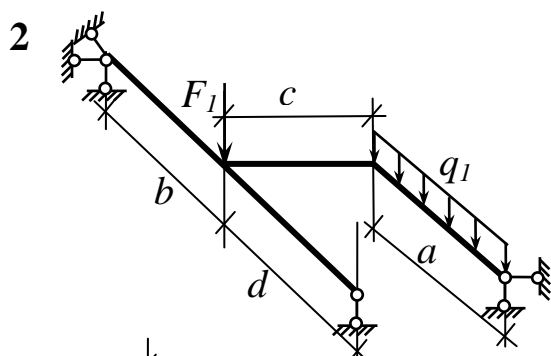
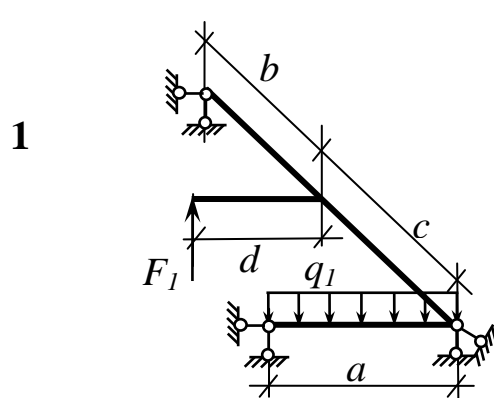
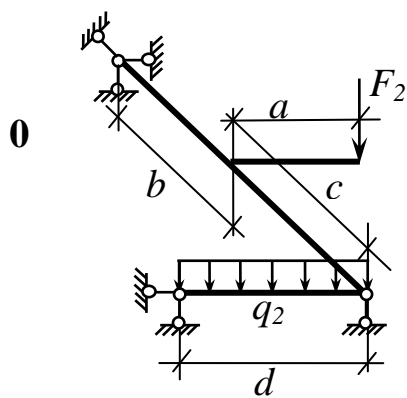


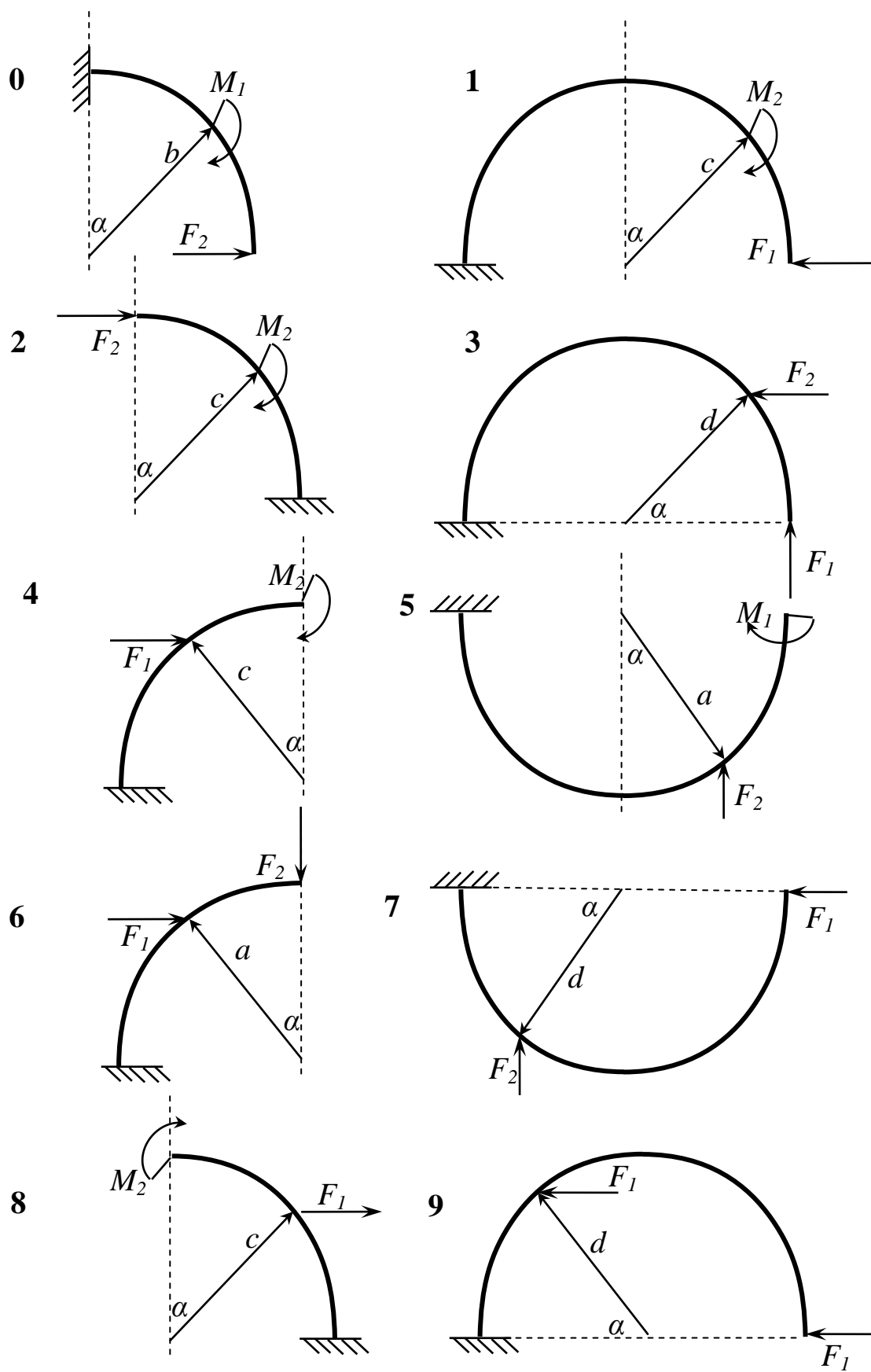




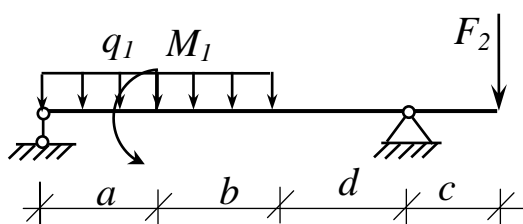




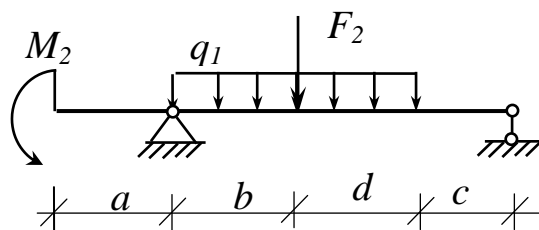




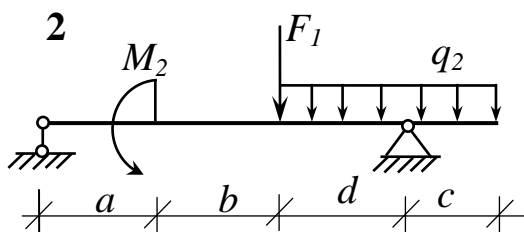
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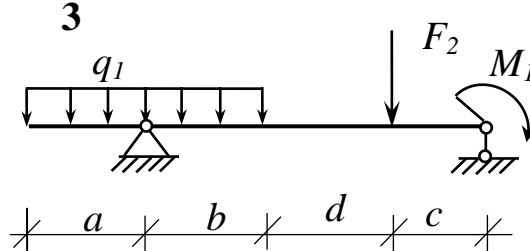
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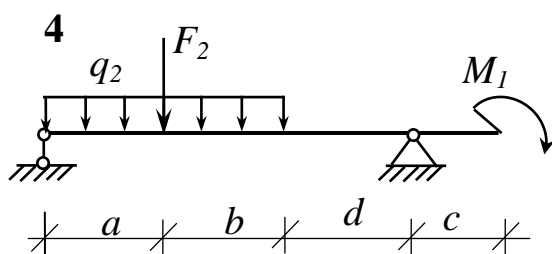
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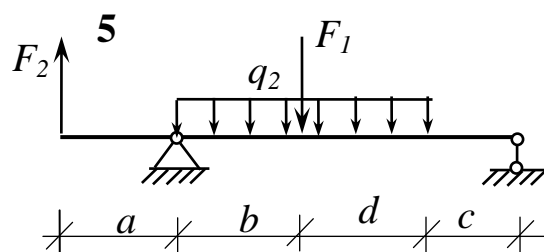
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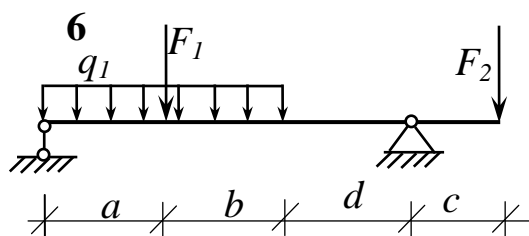
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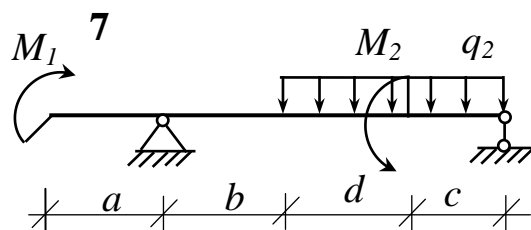
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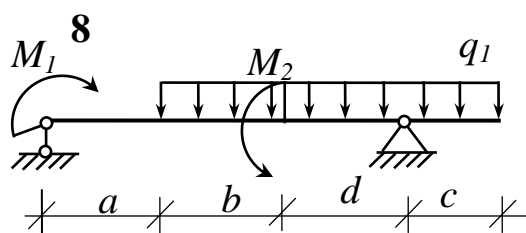
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