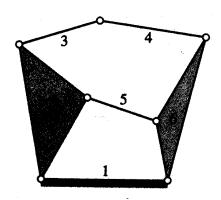
Question 1:

For the mechanism shown, identify the pairing and determine the mobility

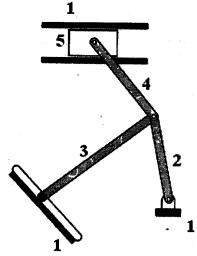


Pairing	Lower	Higher
1-2	1	
1-6	1	
2-5	<b>V</b>	
5-6	<b>V</b>	
2-3 4-6	<b>V</b>	
4-6	1	
3-4	/	
Total	74	

Mobility = 
$$15 - 14 = 1$$

# Question 2:

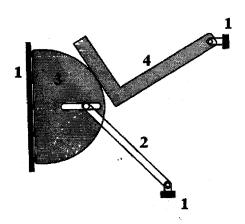
For the mechanism shown, identify the pairings and determine the mobility



Pairing	Lower	Higher
1-2	1	
1-3		1
2-3	1	
2-4	1	
2-4 4-5	1	
5-1	1	
Total	5	1

## Question 3:

For the mechanism shown, identify the pairings and determine the mobility

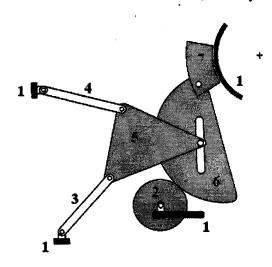


Pairing	Lower	Higher
1-2	1	
1-3	1	
2-3		1
3-4		1
1-4		
Total	3	2.

Mobility = 
$$9 - 6 - 2 = 1$$

## Question 4:

For the mechanism shown, identify the pairings and determine the mobility

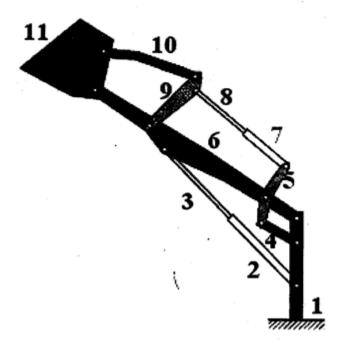


Pairing	Lower	Higher
1-2	1	
1-3	1	
1-4	1	
1-7	1	
2-6 3-5		1
3-5	1	
4-5	<b>✓</b>	
5-6		1
6-7	/	
Total	7	೩

Mobility = 
$$18 - 14 - 2 = 2$$
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### Question 5:

For the machine shown, two hydraulic cylinders are used to control the position of bucket 11. Identify the pairings and determine the mobility.



Pairing	Lower	Higher
1-2	1	
2-3	1	
1-4	1	
1-6	1	
4-5	1	
5-6	1	
5-7 7-8	1	
7-8	1	
3-6	1	
6-9	1	
8-9	1	
9-10	1	
6-11	1	
10-11	1	-
Total	14	0