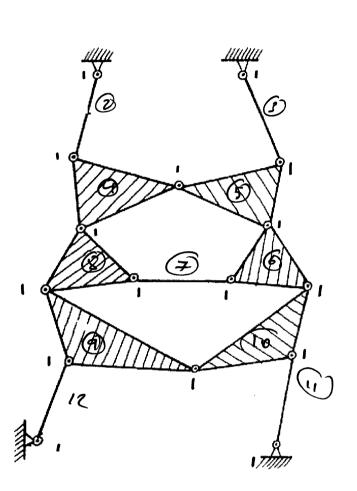
Typical Solution				
Faculty of Engineering	Philadelphia University	Mechanical Eng. Dep.		
Course name: Theory of machines	First Quiz	Course number:620333 class(1)		
Instructor: Eng. Laith Batarseh	Sunday 4/11/2018	Allowed time: 10 minutes		
Student Name:	Student ID number:			

Problem #1: find the mobility for the following mechanism

N= 12
$P_{i=16}$
$ ^{2}z = 0$
M= 3(N-1)-2P1-P2
= 3(12-1) - (2)(16) - 0
= 33 - 32 = 1



/		1 Solution.	
	Faculty of Engineering	Philadelphia University	Mechanical Eng. Dep.
	Course name: Theory of machines	First Quiz	Course number:620333 class(1)
-	Instructor: Eng. Laith Batarseh	Sunday 4/11/2018	Allowed time: 10 minutes
	Student Name:	Student ID nun	nber:
6 6	$V = 13$ $P_{1} = 18$ $P_{2} = 0$ $N = 3(N-1) - 2P_{1} - P_{2}$ $= 3(18-1) - (2)(18) $		

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Faculty of Engineering	Philadelphia University	Mechanical Eng. Dep.
Course name: Theory of machines	First Quiz	Course number:620333 class(2)
Instructor: Eng. Laith Batarseh	Monday 5/11/2018	Allowed time: 10 minutes
Student Name:	ent Name: Student ID number:	

Problem #1: find the mobility for the following mechanism

$$N = 16$$

$$P_1 = 22$$

$$P_2 = 0$$

$$M = 3(N-1) - 2P_1 - P_2$$

$$= 3(16-1) - (2)(22) - 3$$

$$= 45 - 44 = 1$$

