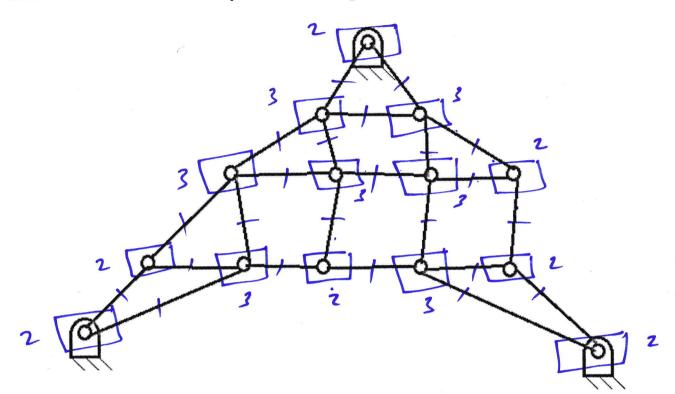
Faculty of Engineering	Philadelphia University	Mechanical Eng. Dep.
Theory of machines	section #1	Allowed time: 10 min
Eng. Laith R. Batarseh	First Quiz	Tuesday 20/3/2018
Student Name:	Student ID number:	

Problem: Determine the mobility for the following mechanism



N = 24  $P_1 = 35$ 

Pz = 0

 $M = 3(N-1) - 2P_1 - P_2$ = 3(24-1) - 2(35) = 3 - 1

 $P_1 = (1 \times 0) + (2 \times 7) + (3 \times 7) = 35$ 

Faculty of Engineering <b>Theory of machines</b> <b>Eng. Laith R. Batarseh</b>	Philadelphia University section #1 First Quiz	Mechanical Eng. Dep. Allowed time: 10 min Tuesday 20/3/2018	
Student Name:	1 Student ID numb	ber:	
typical Solution			
Problem: Determine the mobility for the following mechanism			
	2	A	
N = 21	P, 29 P	2 = 0	
$M = 3(N-1) - 2P_1 - P_2$ = 3(21-1) - $(29) - 0 = 2$			

 $P_1 = (1 \times 4) + (2 \times 8) + (3 \times 3) = 29$