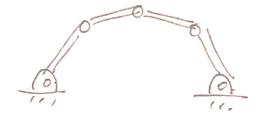
\*\*Week 1. Robot Configuration Space. \* VOD2 Gruether's formula for planar books

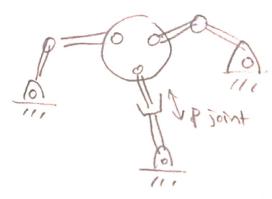
· Gruebler's formula.

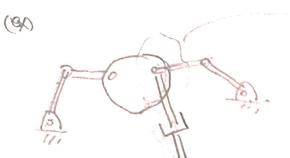
Cplanar vortion):

(ex)

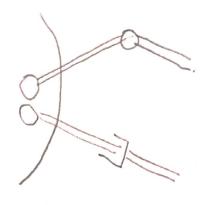


(ex)

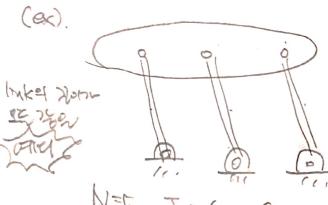


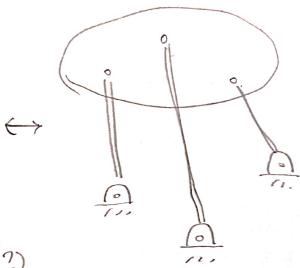


विद्या याजार।



> Every Joint connects exactly two links!





POF=0.

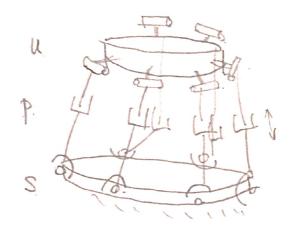
.X. There are some exceptions. \*X. to Grueldar's formula.

$$DOF = 6 (N-1) - \frac{7}{1=1} (6-f_1)$$
 $\frac{3}{3}$  position

 $\frac{3}{3}$  consentation

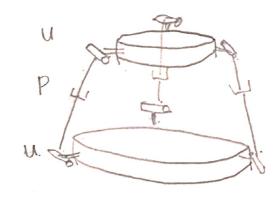
 $= 6 (N-1-7) + \frac{7}{1=1} f_1$ 

## (ex) 6 x. OPS platform.



$$f_{i} = \begin{cases} 6 \text{ S-Joint} & (3x6) \\ 6 \text{ V-} & (2x6) \\ 6 \text{ P-Joint} & (1x6) \end{cases}$$

## (ex). 3 x UPU mechanism:



Actually, move like 5.

(Singular Mechanism).

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