Mechanism

O Kutzbach Enteron

$$F = 3(n-1)-2j-h$$

$$f = 1 \quad (constrained mechanism)$$

Grubler contérion

Let "j" be the no. of joints.

We are limiting to the
Case of simple hinge

7 JOINT

0000

So total no gelements = 2j
Total no gelements is also
equal to (2nz+3n3+----- + knk)

$$2j = 2\eta_2 + 3\eta_3 + \frac{1}{3}$$

$$F = 3(n_2 + ---- + n_k - 1)$$

$$- (2n_2 + 3n_3 + --- + kn_k)$$

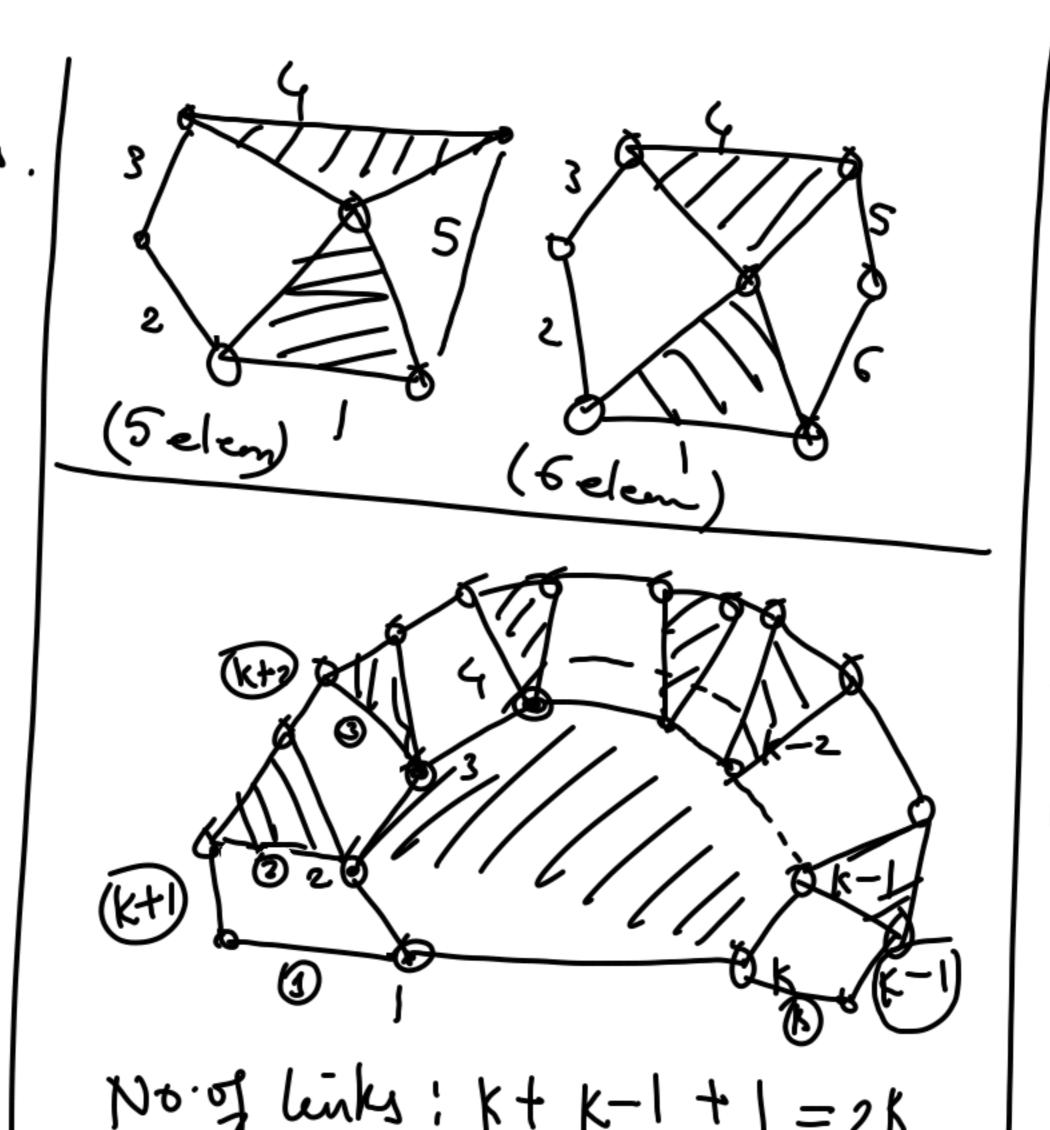
$$\int_{-\infty}^{\infty} n_2 = (F+3) + n_4$$

$$+ 2n_5 + - - -$$

$$- + (K-3)n_K$$

So minimim no. of binary links = 4 Given "n" no. of lunk he want to find out what is the maximum no. of honges link can have?

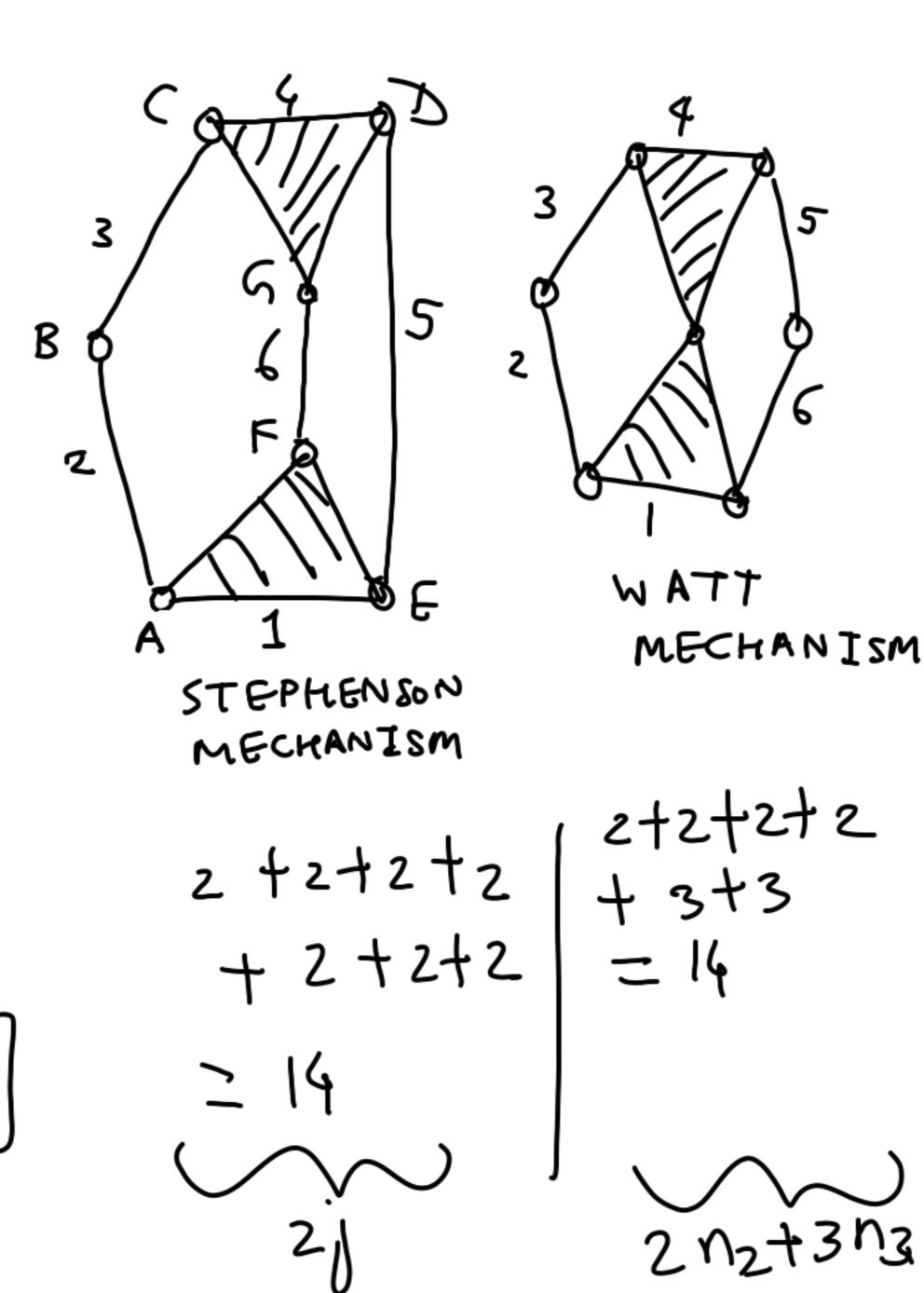
min. no. of elements



No. of links: k+k-1+1=2k | 1=3(n-1)-2j Min. no. of elements = 2k | j=3(6-1)-2j

Given "n" no of links, we can have a link with maximun n/2 (n=EVAN) (000) (17n) hinges F=1; n=6 1 = 3 (n-1)-2)

n/z = 3 So in Itins Case we can binary and ternary links ns ns $n_2 + n_3 = 6 - 0$ $2n_2+3n_3=2j=14$ 2n2+2n3=12 -3 m2 = 2/3 m2 = 4



4 bar mechanism bhat is the consequence of lengths of links Grashoff Criterion l, l2, l3, l4

asenting order S, b191 l Longest Shortest Lantermediate He+5< 1+9) then one of link prll undergo full vol-tion Its >> to then we have triple rocker Mechanism (a) Link adjacent to "5"
is fixed, then "5"

will complete full volation and we will

have crank-rocker mechanism connections
To por courier (CRANK) S ROCKER

FIXED LINK

(b) If link offosite to "5" is fixed then ne have double rocker mechanism



(c) If is is fixed, he will have a double crank mechanism prag

Inversions of a mechanism over oblained by changing the fixed link.

