T21 G1 08 April 2022 A geaph ip s.t.b Complète graph if these exists on edge by every pair q its vertices vertices one adjacent Ky (Complète graph with n redices 43(4) 1) He no. 9 radices = n 2) the degree of every voice = (n-1)

3 the no. 9 edges

Pay Handplaky Edep(re) = 2e

Son of degue of all the voltice = n(n-1)

The no. 9 edges in K10 is.

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The no. 9 edges in K_{10} is. $\frac{1}{10}(10-1) = 5\times 9 = 45$
2 dy(re)= even
For what value of n, kn Contains on Euler assuit!
(a) 40 (b) EVA)
In kn $deg(u) = n-1 = even$
$\Rightarrow m = odd$
For what value of n, kn Cartains an Hamiltonian path
gel 6 Even 6 odd 6 No value
to for the value on, ky contain thanktonism circuit.
All except n=2
Regular Geaph: A graph is s.t.b sigular if degree of every veiler is some.
of def(re)= K, reEV then the graph is
k-sigular graph
le, and le
0-segular graph 1-Regular graph
2-sigular graph

3 signal graph All Complète graphs are significant not all sigular graphs are complete 3. segular graph with Not popsible s(e=9/2) no. 9 redices in a 4-sigular graph with 20 edges Edg(4) = 2e 4m = 2 (20) The Legion General of 7,7,7,7,7,7,7