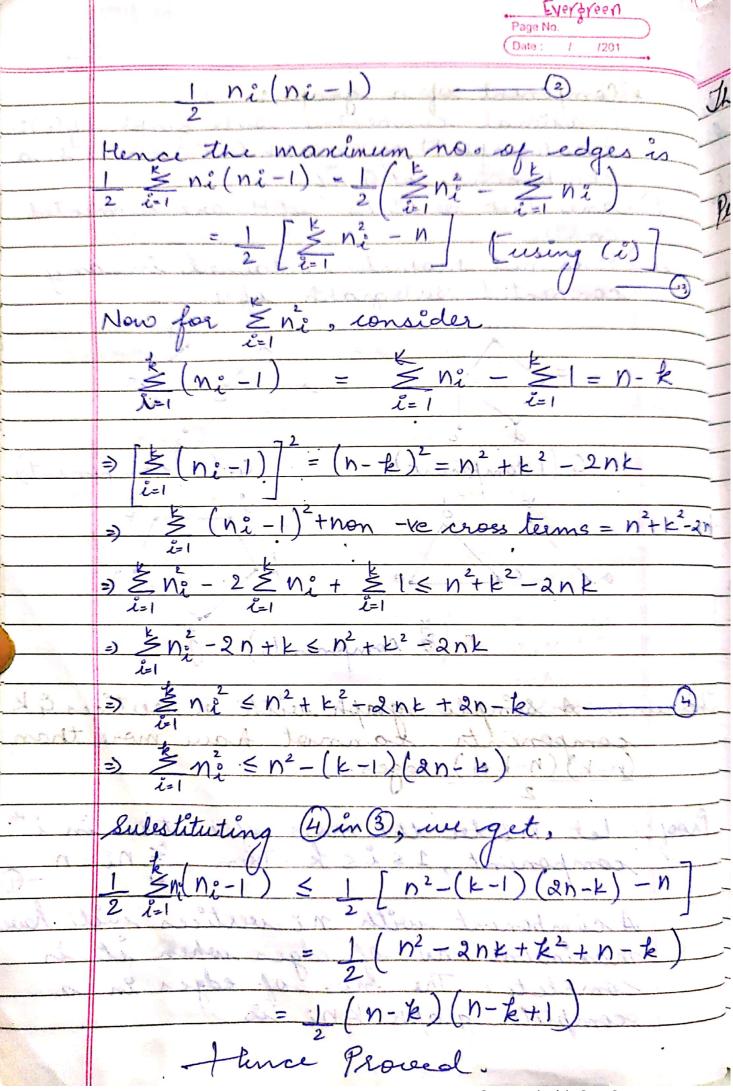


0 vertice



Scanned with CamScanner

win: Shoul that a simple graph quitt neertices is connected of it has more than $\frac{1}{2}(n-1)(n-2)$ edges.

Mos imple graph is connected, if it has only one component.

Let the graph is not connected and has two components. By theorem, the maximum no of edges is $\frac{1}{2}(n-2)(n-2+1) = \frac{1}{2}(n-1)(n-2)$ lo if the no of edges is more than $\frac{1}{2}(n-1)(n-2)$ the graph will get $\frac{1}{2}(n-1)(n-2)$ the graph will.

Eulerian Path & Circuits: Euler Path: A path is a connected graph 9 is called Euler path if it includes wery edge exactly sonce. Since the path contains levery ed exactly sonce, it is also called a Euler I teail . Euler Circuit: An euler path that is a circuit is called Euler (or tulerian) Hamiltonian Path & Circuit: Hamiltonian Cycle: A cycle in a connected graph 9

Evergreen called Hamiltonian ph 9 which has a Hamiltonian le is called a Hamiltonian graph. an examp Both and jus . 6 a 9 00 9, Hamiltonian Cycle: 9

Page No.

Date: / 1201

Le q,

In q, Euler Circuit; a, b, c, d, a

Hamiltonian Lycli: a, b, C, d, a

To q: Euler circuit and Hamiltonian

Cycle are a, b, c, a