

CO 342: Introduction to Graph Theory

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Theorems and more reference sheet.

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1 The Basics

1.1 The Degree of a Vertex

Theorem. The number of vertices in a graph is always even.

The number $\delta(G) = \min\{d(v) | v \in V\}$ is the **minimum degree** of G

Theorem. Every graph G with at least one edge has a subgraph H with $\delta(H) > \epsilon(H) \geq \epsilon(G)$.

Indices

minimum degree, [1](#)