

# Networks

## Vertex (plural: vertices)

An object, represented with a dot.

## Edge

A connection between two vertices represented with a line or an arrow.

## Loop

An edge that connect from an vertex to itself.

## Graph

A collection of vertices that are connected (or not) to each other using edges in some specific way.

## The Degree of a Vertex

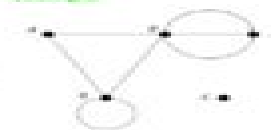
The number of edges connected to a vertex.

A loop counts as two edges for the degree.

Vertices are classified as even or odd if their degree is an even number or odd number.



## Example



## Degrees

$\text{Deg}(A) = 2$

$\text{Deg}(B) = 4$

$\text{Deg}(C) = 5$

$\text{Deg}(D) = 2$

$\text{Deg}(E) = 1$

## Handshaking Lemma

Every edge is counted by the degree of two vertices. Sum of vertex degrees =  $2 \times$  number of edges.

A loop counts as one edge in the number of edges.

## Direction on Graphs

### Undirected Graph

A graph where the edge between two vertices acts in both directions.



### Directed Graph / Digraph

A graph where specific direction is indicated for every edge. Some vertices may not be reachable from other vertices.



## Undirected Graphs

## Types of Networks



Graph Type	Number of Edges with a vertices
Complete	$\frac{n(n-1)}{2}$
Connected	$n-1$

## Types of graphs

**Simple graph** – No loops or duplicate edges.

**Isolated vertex** – A graph has an isolated vertex if there is a vertex that is not connected to another vertex by an edge.

**Degenerate graph** – Degenerate graphs have all vertices isolated. Therefore, there are no edges in the graph at all.

**Connected graph** – Each vertex is either directly or indirectly connected to every other vertex.

**Bridge** – A bridge is an edge that when removed makes the graph unconnected.

**Subgraph** – Are graphs that are part of larger graphs.

**Equivalent (isomorphic) graph** – Look different but have the same information

**Complete graph** – Every vertex has a direct connection to every other vertex.

**Bipartite Graph** – A bipartite graph is a graph whose set of vertices can be split into two subsets X and Y in such a way that each edge of the graph joins a vertex in X and a vertex in Y.

**Isomorphic graphs** – Two graphs have: ① same numbers of edges and vertices; ② corresponding vertices have the same degree and the edges connect the same vertices.

# The Mathematics Of Networks

**RJ Shavelson**



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