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given a graph G its line graph or derivative $L(G)$ is a graph such that i each vertex of $L(G)$ represents an edge of G and ii two vertices of $L(G)$ are adjacent if and only if their corresponding edges share a common endpoint are incident in G fig this construction can be iterated to obtain higher order line or derivative graphs we sometimes refer to a graph as a general graph to emphasize that the graph may have loops or multiple edges the edges of a simple graph can be represented as a set of two element sets for example $\{v_1, v_2\}, \{v_2, v_3\}, \{v_3, v_4\}, \{v_4, v_5\}, \{v_5, v_6\}, \{v_6, v_7\}$ onumber is a graph that can definition of a graph a graph G comprises a set V of vertices and a set E of edges each edge in E is a pair $\{a, b\}$ of vertices in V if $\{a, b\}$ is an edge in E we connect a and b in the graph drawing of G example $v_1, v_2, v_3, v_4, v_5, v_6, v_7, v_2, v_1, v_3, v_2, v_4, v_4, v_5, v_3, v_5, v_4, v_5, v_3$ graph theory 1 introduction graphs are an incredibly useful structure in computer science they arise in all sorts of applications including scheduling optimization communications and the design and analysis of algorithms in the next few lectures we ll even show how two stanford stu dents used graph theory to become multibillionaires a graph is finite if both its vertex set and edge set are finite in this book we study only finite graphs and so the term graph always means finite graph we call a graph with just one vertex trivial and ail other graphs nontrivial a graph is simple if it has no loops and no two of its links join the same pair of vertices in mathematics graph theory is the study of graphs which are mathematical structures used to model pairwise relations between objects a graph in this context is made up of vertices also called nodes or points which are connected by edges also called arcs links or lines this text for the first undergraduate course will explore major topics in graph theory from both a theoretical and applied viewpoint topics will progress from understanding basic terminology to addressing computational questions and finally ending with broad theoretical results graph theory graph objects and methods constructors and databases low level implementation hypergraphs libraries of algorithms indices and tables by the authors of the classic text graph theory with applications serves as both a textbook and an introduction to graph theory research suitable for both mathematicians and computer scientists features many new exercises of varying levels of difficulty to help the reader master the techniques introduction to graph theory course by university of california san diego coursera this course is part of introduction to discrete mathematics for computer science specialization instructor alexander s kulikov enroll for free starts jun 26 financial aid available 51 221 already enrolled included with about outcomes modules a simple introduction to graph theory leisha fortunat key terms a vertex is a labeled point placed on a graph vertices plural an edge is a line segment set is a notation identifying specific objects graph a graph is a set of points vertices where you draw lines edges between it an application of graph theory quick tour of linear algebra and graph theory basic linear algebra linear function a linear function $f: M \rightarrow N$ is a function from M to N that satisfies two properties 1 for all $x, y \in M$ $f(x+y) = f(x) + f(y)$ 2 for all $x \in M$ and all $a \in R$ scalar $f(ax) = af(x)$ every linear function can be represented by a matrix every matrix is a linear function in mathematics graph theory is the study of graphs which are mathematical structures used to model pairwise relations between objects a graph in this contec is made up vertices also called nodes or points which are connected by edges also called links or lines wikipedia graphtheory release10 3 table1 continuedfrompreviouspage complement returnthecomplementofthe di graph line graph 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definition of a graph a graph g comprises a set v of vertices and a set e of edges each edge in e is a pair $a b$ of vertices in v if $a b$ is an edge in e we connect a and b in the graph drawing of g example $v_1 2 3 4 5 6 7 2 1$ $e_1 2 1 3 2 4 4 5 3 5 4 5 3$

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quick tour of linear algebra and graph theory basic linear algebra linear function a linear function m is a function from \mathbb{R}^n to \mathbb{R}^m that satisfies two properties 1 for all $x, y \in \mathbb{R}^n$ $m(x+y) = m(x) + m(y)$ 2 for all $x \in \mathbb{R}^n$ and all $a \in \mathbb{R}$ scalar $m(ax) = am(x)$ every linear function can be represented by a matrix every matrix is a linear function

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