

1 Graph Theory Primer

Definition 1.1. Let $G = (V, E)$ be a graph, where V is the vertex set and E is the edge set. The **degree** of a vertex $v \in V$ (denoted $\deg(v)$) is the number of edges with one end in v . (i.e. The size of the set $\{va \mid a \in V, a \neq v\}$)