order (of a graph)

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The *order* of a graph G is the number of vertices in G; it is denoted by $|G|$. The same notation is used for the number of elements (cardinality) of a set. Thus, $|G| = |V(G)|$. We write G^n for an *arbitrary graph of order n*. Similarly, $G(n, m)$ denotes an *arbitrary graph of order n and size m*.