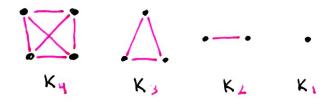
Common Graphs

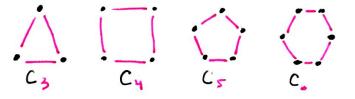
complete graph, denoted Kn, is a graph of 1 vertices that has an edge between every pair of vertices. (i.e. all vertices are connected to each other)

Kn is also called a clique of size n or a n-clique examples:

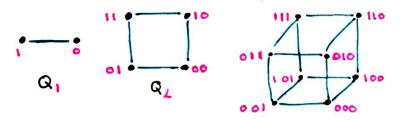


a cycle graph, denoted Cn, is a graph of n vertices where the edges connect the vertices in a ring. The degree for each vertex = 2. Cn is also called a cycle on n.

Note: In is well defined only for n ≥3



the nydimensional hypercube, denote Qn, has 2" vertices. Each vertex has an n-bit string label. There's an edge between two vertices if their corresponding labels differ by one bit.



a bipartite graph, denoted Km,n, has two vertex subsets. One subset has m vertices and the other has n vertices. There are no edges between vertices of the same subset, but there is an edge between every vertex in one set to the other set.

examples:

