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 $mk + (n(T) - m) = 2n(T) - 2$, since T has $n(T) - 1$ edges. The equation simplifies to $n(T) = m(k - 1) + 2$. Since m is a nonnegative integer, $n(T)$ must be two more than a

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multiple of $k - 1$. Whenever $n = m(k - 1) + 2$, there is such a tree (not unique for $m \geq 4$).

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Introduction to Graph Theory (World Scientific, 2006). The student who has worked on the problems will find the solutions presented useful as a check and also as a model for rigorous mathematical writing. For

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Manual of reference, each chapter recaps some of the important concepts and/or formulae from the earlier book.

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Graph theory has abundant examples of NP-complete problems. Intuitively, a problem is in P if there is an

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efficient (practical) algorithm to find a solution to it. On the other hand, a problem is in NP 2, if it is first efficient to guess a solution and then efficient to check that this solution is correct. It is

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conjectured (and not known) that $P \neq NP$.

Lecture Notes on GRAPH THEORY

In mathematics, graph theory is the study of graphs, which are mathematical

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Manual structures used to model pairwise relations between objects. A graph in this context is made up of vertices which are connected by edges. A distinction is made between undirected graphs, where edges link two

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Manual vertices symmetrically, and directed graphs, where edges link two vertices asymmetrically; see Graph for more detailed definitions and for other variations in the types of graph that are commonly

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considered. Graphs a

Graph theory - Wikipedia

simple graph G on n vertices without p -cliques and the maximum number of edges is the complete multipartite graph K_{n_1, \dots, n_p} , where

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$\sum_{i=1}^n n_i = n$ and $|n_i - n_j| \leq 1$. For any graph G and any $S \subseteq E(G), \dots$

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Solution. Given a graph G of order n with degree sequence

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(d_1, d_2, \dots, d_n),
let H be the graph obtained
by adding a new vertex w to
 G and joining w to every
vertex in G (see the diagram
below). It can be checked
that the degree sequence of
 H is $(d_1 + 1, d_2 + 1, \dots$

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