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By the degree-sum formula,  
 $mk + (n(T) - m) = 2n(T) - 2$ , 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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Manual 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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B. West. Published by  
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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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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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$P_{n_1} = n$  and  $|n_i - n_j| \geq 1$ . 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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