Show All Solutions

Rosen, Discrete Mathematics and Its Applications, 6th edition
Extra Examples

Section 10.5—Minimum Spanning Trees

Extra Examples — *Page references correspond to locations of Extra Examples icons in the textbook.*

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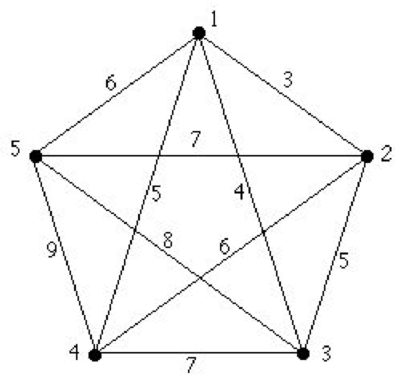
p.740, icon at Example 3

#1. Suppose the vertices of K_5 are numbered $1, 2, 3, 4, 5$ (in clockwise order) and each edge is assigned a weight equal to the sum of the labels on the endpoints of the edge, as in the following figure. Find a spanning tree of minimum weight for this graph.



See Solution

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p.740, icon at Example 3

#2. Suppose the vertices of K_n are numbered $1, 2, \ldots, n$ (in clockwise order) and each edge is assigned a weight equal to the sum of the labels on the endpoints of the edge. Find a spanning tree of minimum weight for this graph and find the weight of this spanning tree.

See Solution
