

Student: _____ Class: _____ Date: _____

Networks and Graphs: Spanning Trees

VII.B Student Activity Sheet 7: Minimal Spanning Trees

A railroad system connecting five cities is being planned. The goal is to build this system using the least amount of money, while ensuring that each city can be reached by any other city in the system. Based on the distance and terrain, the following chart gives estimates for the cost, in hundreds of thousands of dollars, to build a railroad between any two cities.

	City A	City B	City C	City D	City E
City A		10	5	4	2
City B			7	9	11
City C				5	10
City D					12

1. Create a graph to model the costs contained in the table.
2. Restate the railroad problem using the terminology associated with graphs (for example, *vertices*, *edges*, *paths*, *cycles*).
3. Construct two different graphs that represent possible railroad networks, and calculate the total cost to build each rail system.
4. What rail system leads to the lowest construction cost?
5. How did you arrive at the most efficient rail system? State your answer in a step-by-step algorithm that someone else could follow.

Networks And Graphs Spanning Trees Sheet 7 Answers

Andrew Adamatzky



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