Extra Exercises on Chapter 11

Ex. 1 How many full binary trees with six vertices?

Ex. 2 How many vertices does a full binary tree with 50 leaves have?

Ex. 3 If T is a full binary tree with 50 leaves, what is its minimum height?

Ex. 4 Evaluate the arithmetic expression whose prefix representation is − 5 / • 6 2 − 5 3

Ex. 5 How many spanning trees does C7 have?

Extra Exercises on Chapter 11

Ex. 6 The string 2 3 a · x + 4 ↑ + 7 ↑ is postfix notation for an algebraic expression. Write the expression in prefix notation.

Extra Exercises on Chapter 11

Ex. 7 Use Prim's algorithm to find a minimal spanning tree for this weighted graph. Use alphabetical order to break ties.