Lab 8

**Exercise 3**

Use the tree diagram below to answer the questions.

A picture containing text, clipart

Description automatically generated

1. What is the root node of the tree?

The root node is 50.

1. What are the leaf nodes of the tree?

The leaf nodes are 9, 14, 19, 67, and 76.

1. What are the ancestor nodes of the node containing 19?

The ancestor nodes which contain node 19 are 23, 17, and 50.

1. Write the sequence of node values that you would get from a post-order traversal.

9, 14, 12, 19, 23, 17, 67, 54, 76, 72, 50