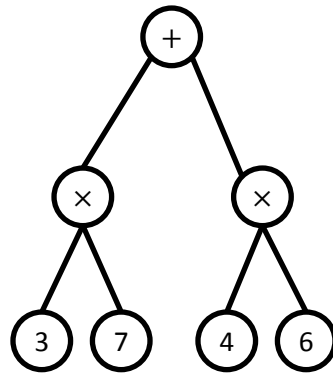


1) Draw the binary tree representing the expression "3 · 7 + 4 · 6"



2) Write the postfix form of the expression given by your tree in the previous problem.

37 × 46 × +

3) In 2007 the Men's basketball tournament was a 65-team single-elimination tournament. After the teams are assigned, in how many ways can the tournament unfold?

$$2^{64}$$

This create a full binary tree with 65 leaves (the teams). We then know there are 64 internal vertices, each one of which represents a game. A game has two choices for winner, so we multiply all 64 two's.

4) Draw all nonisomorphic rooted binary trees with 3 vertices.

