GRAPH THEORY: CLASS 7

1) Verify directly that there are exactly 125 labeled trees on 5 vertices.

2) Find the number of spanning trees in $K_{2,1}, K_{2,2}, K_{2,3}, K_{2,4}$.
How many spanning trees has $K_{2,s}$, $s \geq 1$?.

3)Perform a breath first search and a depth first search on the tree T_1 below.