Some results on trees

- Chromatic number of any tree is at most 2.
- The max clique size of any tree is at most 2.
- For every tree T, there is at least one maximum independent set that contains all the leaves of T. (Why?)
- For every tree T on $n \geq 3$ leaves, there is a minimum vertex cover that does not contain any leaves. (Why?)
- For every tree T on $n \geq 3$ leaves, there is a minimum dominating set that does not contain any leaves. (Why?)