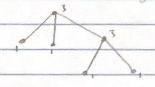
SYOP3

learning about trees and their properties helped one realize how many examples of trees. I encounter on a day to day basis. I never made the connection that a townsment bracket of a family tree were both actually forms of mathematical trees. The concept of trees also fies into a homework I had recently in one of my computer science classes. We were told to construct a tree based on Github commits (fithub is a program used for version control). It really is interesting how often trees show up in places outside of math classes.

Problem I want to solve.

Draw a tree with 6 vertices having degrees 1,1,1,1,3,3



Another Problem I want to solve.

Assume a forest is a simple graph with no cycles.

Explain why a forest is a union of trees.

Each component within a forest will be acyclic and connected to each other. This matches the definition of a tree.

thonestly, I feel a little dumb for not noticing earlier but mathematical trees are actually very similar to trees in nature. I was working on this assignment outside and looked at a tree in my backyard, realizing how the branches are basically the same as edges in mathematical trees. I feel like I can't look at trees the same way now.