



I think the graph is a success as it looks pretty linear, which matches the polytropic equation of state, and it is also supposed to show a linear relationship between pressure and density. However, unfortunately, I couldn't show it on the graph because I didn't know how to figure out an array of different values for Kappa. I'm not sure if I'm supposed to find it somewhere or randomly implement it so I will just leave it there. You can still see the bad graph in my code section though and I will try to plot the polytropic equation of the state after asking more questions later.