HW. Density of the sun According to NASA (source: https://spacemath.gsfc.nasa.gov), the best-fit formula D(x) represents the cleasity of the sun (in g/cm3) is: D(x) = 519x4-1630x3 +1844x2-889x+155 Whore & represents the clistance from the core (DEXEL) Therefore: x=0 = D(0) is the density at the core oc=1 + D(1) is the donsity at the surface So to calculate the average density of the sun; I will calculate the density at the midway point from the core to the susface (x=0.5) a) (0,5) = 519(0,5)4-1630(0,5)3+1844(0,5)2-889(0,5)+155 ≈0,1875 g/cm3 I planned to take the average density from x=0 at first but I realized each region has a different area and the dense core might affect the number so much so I take the midway point density instead.