HW2-400A (Written Part) $f_{7} = 1.77 \text{ cm} = 0.5 \text{ place ment from center} = radius R_{10}^{10} = 20.4 [4/3 \pi 16.9]$ $(1) = 1 R = \sqrt{N.ly} = R^{2} = N \cdot ly^{2} = 0.96 \cdot 10^{10} = 1.55 \cdot 10^{22}$ $ly^{2} = 1.77^{2}$ $ly^{2} = 1.77^{2}$ (6.674.10-8.1. 989.1033/6.96.1010)1/2