PHYS 111 K
HOMEWORK #8

Due : 5 Nov. 2015

1. A chain of uniform density and length L lies on a table with a portion of the chain overhanging the edge of the table. If the coefficient of friction between the chain and the table is μ, what is the maximum fraction of the chain that can overhang the edge before the chain slides off the table?

2. Conceptual question #2 on the top of p. 210.

3. Problem 2 on the bottom of p. 210.

4. Problem 12, p. 211

5. Problem 32, p. 212

6. Problem 43, p. 212

7. Problem 48, p. 213

8. A newly discovered planet has a radius that is 1/2 the Earth' s radius and a mass that is 1/10 the mass of the Earth. What is the value of surface gravity on this planet (it is much easier to solve this using ratios).