today:

§ 6.4 - work quiz: §§ 6.1, 6.2

wednesday:

mslc webwork workshop @ 11:30, 12:30, 1:30, 2:30, 3:30 in SEL 040 webwork 3 due @ 11:55 pm project 1 help session 5:30 - 7:30 in EA 285

thursday:

homework 3 due (6.2.16, 6.2.22, 6.2.60, 6.3.20, 6.3.28, 6.3.46b) § 7.1 - integration by parts § 7.2 - trig integrals mslc - trig review workshop @ 12:30 and 3:30 in CH 042

monday:

webwork extra credit project I due @ 6:00 am

tuesday, 27 october:

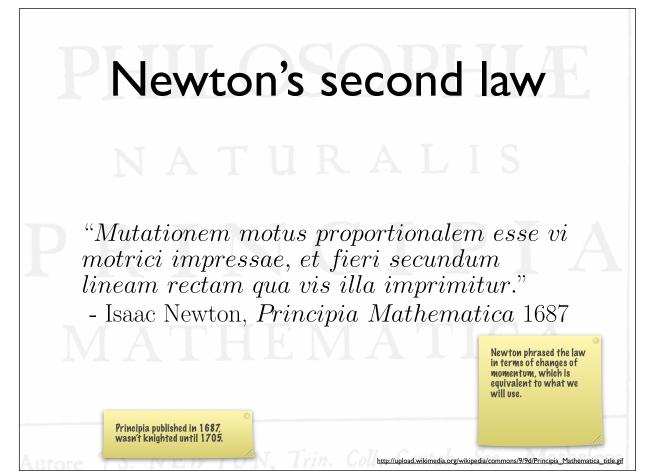
homework 4 due (6.4.10, 6.4.16, 7.1.28, 7.1.56, 7.2.44, 7.2.66) quiz: §§ 6.4, 7.1

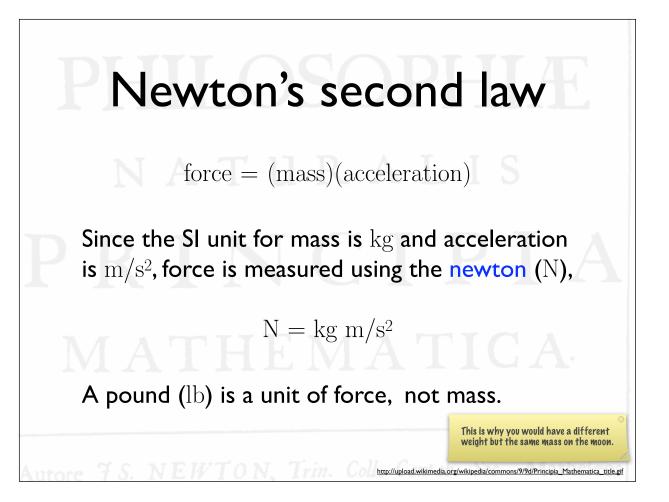
wednesday, 28 october:

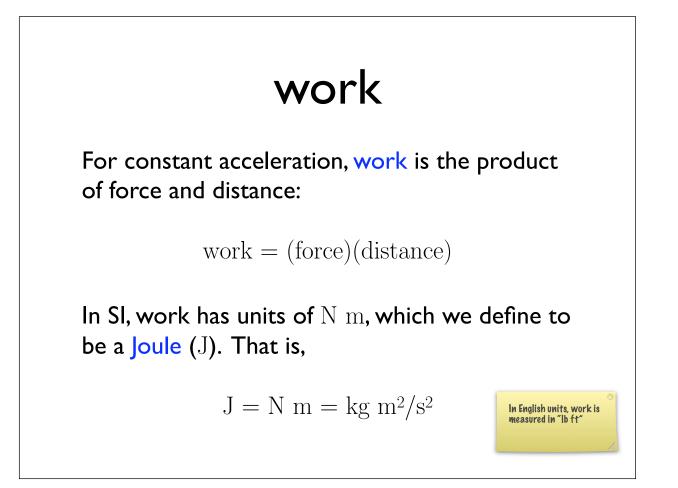
webwork 4 due @ 11:55 pm mslc midterm review @ 7:30 pm in HI 131

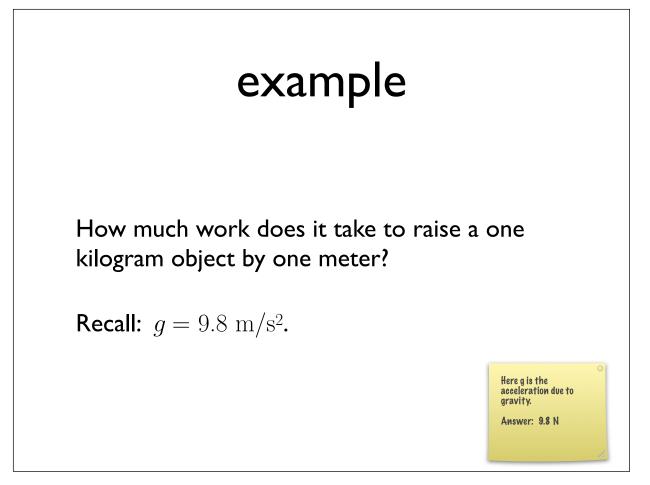
thursday, 29 october:

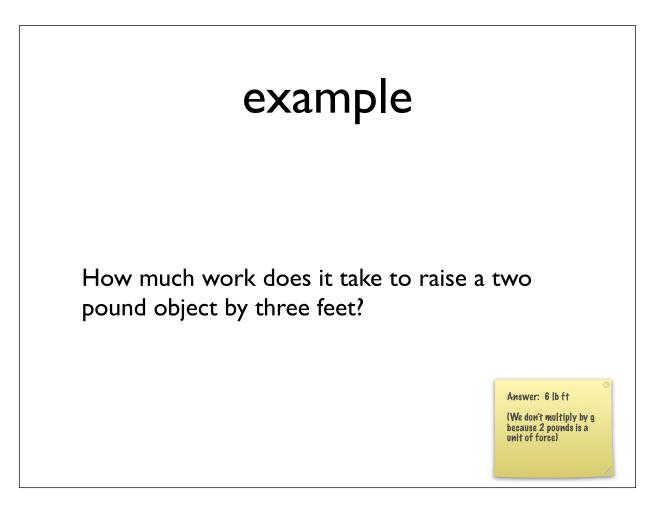
midterm: §§ 6.2-6.4, 7.1-7.3











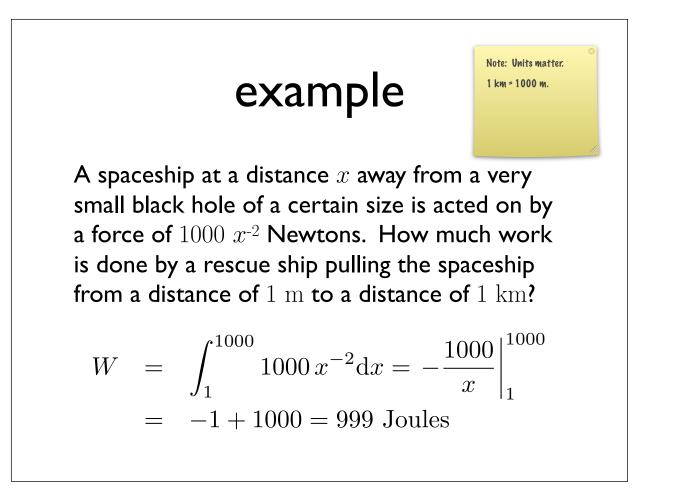
work

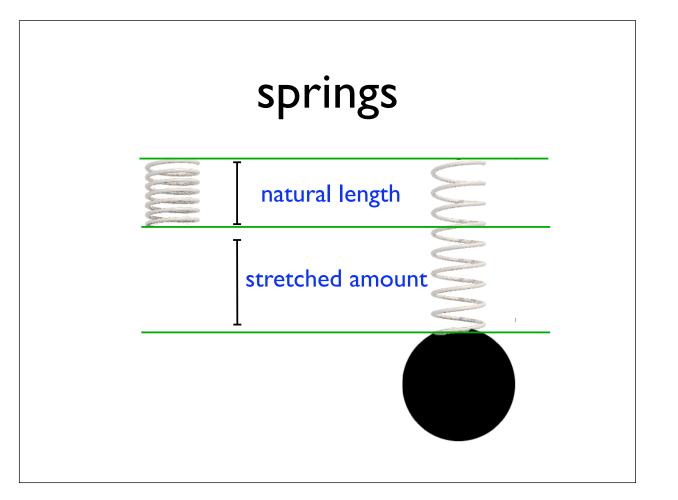
When acceleration is not constant, we divide the distance into small sections over which the acceleration is approximately constant. We then define work to be

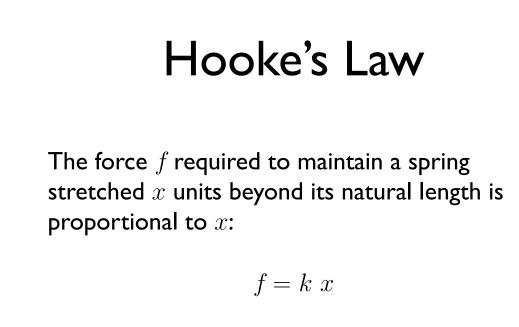
$$W = \lim_{n \to \infty} \sum_{i=1}^{n} f(x_i) \Delta x = \int_{a}^{b} f(x) dx$$

example

A spaceship at a distance x away from a very small black hole of a certain size is acted on by a force of $1000 \ x^{-2}$ Newtons. How much work is done by a rescue ship pulling the spaceship from a distance of $1 \ m$ to a distance of $1 \ km$?







for some constant k.

coming soon

- webwork 3 due wednesday at 11:55 pm
- webwork project I (extra credit) due monday at 6 am
- homework 3 due thursday
- start homework 4 (due tuesday)