# Physics, Preparation for Friday, Sept. 22

## Read the 1st Section of C7 and Chapter C8 of *Six Ideas*

## For Problem Set #4

One problem carried forward from C6, p. 99:

1. C6R.2

One problem from C7, p. 113:

2. C7B.1

Three problems from C8, pp. 131-133

3. C8B.10
4. C8M.11
5. C8M.13

## I still owe you the lightning trig refresher that I promised to do last weekend!

## You guys decide...

...if you want me to show you an example of the kind of integral that gives you the factors like $\alpha = \frac{1}{2}$ for a disk or cylinder. In principle they are three-dimensional integrals over the volume of the rotating object, but in symmetrical situations they usually quickly reduce to one- or two-dimensional integrals.