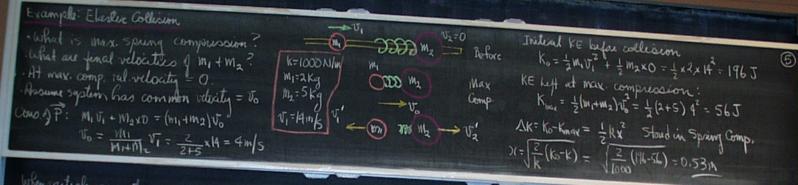
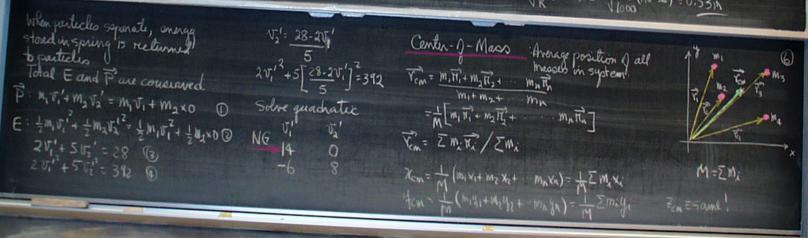
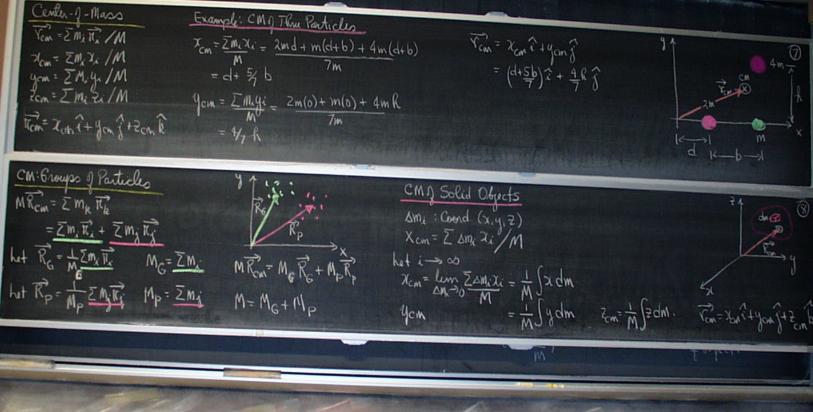


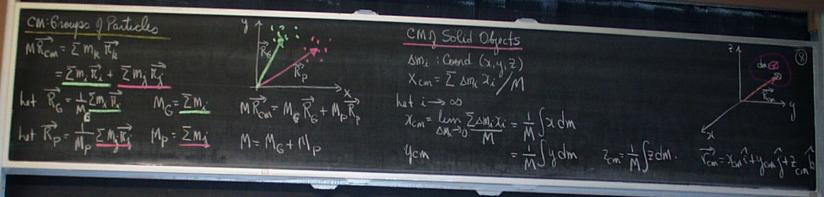
Lecture 17, Blackboard #3







Lecture 17, Blackboard #5



CM of homogeneous symmetric objects his on an assis of symmetry. From Sym. -> cm on point of plane him sym -> cm on line

Convenient to express mass interms of local denoity.

S(X,Y,Z) = mass/volume.

dm = 9(xy, 2) dv

M= [8(x,y,z)dr

2cm = 1 / 28dv yem = 1 / 148dv Zem = 1 / 28dv

If 3(x,y,z) = constant

dr=chidydz element of volume 3D integral

3D intigral.

CM → 15+ moments

CM⇒ 1'st moments of maco distribution of object.