This Homework will NOT be collected

All problems are from Taylor, *Classical Mechanics.*

1) Problem 15.13  Apparent rotation of a moving meter stick  
2) Problem 15.15  Inverse Lorentz transformation  
3) Problem 15.16  Differential form of the Lorentz transformation  
4) Problem 15.17  Lack of absolute simultaneity  
5) Problem 15.22  Sideways velocity transformation  
6) Problem 15.54  Classical momentum is not conserved in a collision  
7) Problem 15.57  Radioactive decay mass change  
8) Problem 15.58  Relativistic speed  
9) Problem 15.61  Relativistic energy and speed  
10) Problem 15.62  Relativistic momentum and speed