

Ph 203 HW 7

1. Bhaduri 1.1
2. Using your results from Prob.1, calculate the invariant mass W^2 of the final state for inelastic scattering in terms of M , Q^2 , and $\nu = E - E'$.
3. Bhaduri 1.6
4. Bhaduri 1.7, for this and the next problem you can use the 20-plet that we worked out in lecture for the wave functions instead of the 56-plet (since you don't need strange quarks here or in the next problem).
5. Bhaduri 1.9