Homework Set #2
due Friday February 5

1. Seiden 8.3 (decay of a heavy tau neutrino)
   [This is very similar to the decay of the tau lepton, but you will need to ignore different masses this time and modify the phase space integration.]

2. Seiden 8.5 (branching ratios for hadronic tau decay)
   [Recall that the pion current matrix element has $\cos \theta_c f_{\pi}$ factors in it.]

3. Seiden 8.11 (conserved vector currents)
   [Calculate the last ratio as a general relation for all $q^2$, not just for the maximum $q^2$ of the process.]