The mixing among three neutrino flavor states is described by a 3x3 unitary matrix. Show that the 3 x 3 unitary mixing matrix is expressed in terms of 3 angles and 1 complex phase if neutrinos are Dirac particles, whereas it contains 2 more phases if they are Majorana particles. (Hint: To show it, you should consider Lagrangian terms for neutrino Dirac and Majorana masses, respectively, and remove unphysical phases which can be absorbed into neutrino fields by field redefinition.)