**Game Theory: Problems for Class 9-4-2020**

4.1 Evaluate the following payoffs for the game given by the normal form pictured here. [Remember, a mixed strategy for player 1 is *σ*1 ∈ Δ{U, M, D}, where *σ*1(U) is the probability that player 1 plays strategy U, and so forth. For simplicity, we write *σ*1 as (*σ*1(U), *σ*1(M), *σ*1(D)), and similarly for player 2.]

**(b)** *u***2**(M, R)

**(e)** *u*1(*σ*1, R) for *σ*1 = (1/4, 1/2, 1/4)

**(g)** *u*2(*σ*1, R) for *σ*1 = (1/3, 2/3, 0)

**(h)** *u*2(σ1, σ2) for *σ*1 = (1/2, 1/2, 0) and *σ*2 = (1/4, 1/4, 1/2).

6.1 Determine which strategies are dominated in the following normal-form games.