the upper contour set of any out come is convex. such that a linear combinations are permitted. We can find MSNE even if PSNE may not exist. Ans. Consider stategy profile st = (str, stw) where SF(tF)= hire Sty (H) = work The firm has just 1 type ! : t=. His belief about the type of the worker is: PF (high 1tf)=3/4 PF (low)tf)=1/4 Firm's expected whility from "hire" is:

UF((hire, 5"N) | tF) = 1 x 3 + (-1) x 1 = 1/2

Firm's expected whility from "don't" is: UF ((don't, 5 m) | tF) = 0x3 + 0x1 = 0

Worker's typellipse high (H) or how (L) Consider tw=high. Fft Pw[tf|high]=1 worker's expected payoff from "work" is a since 271, the worker will choose "worker when tw=H. expected payoff of worker from charge,
"work" will, but payoff from "Shirk"; 1. 91 tw=L, the worker chooses "shirk". institute agritabrium son alegy. ... st is a Bayesian Nash Equilibrius [Note: SF = not hire, By Dshirk

SW(H) = SW(L) = Shirk

Walso a Boiges Nash Equilibrium]

Check yourself Ans. Rock-Raper-Scissors: Player 2 P P S R 0,0 -1,1 1,-1 P 1,-1 0,0 -1,1 Player 1 5 -1,1 1,-1 0,0 NO PSNE

MSNE exult since this is a finite game.

6 suppose player I assigns probabilities
to 2's action as follows: P(R) = 1/3 P(P) = 1/3 P(S) = 1/3 suppose player 2 assigne probabilities a(1)= a(1)= a(5)=1/3. { [13, 13, 13), [13, 13, 13)} u MSNE. Check this yourself by computing expected payoffs & using indifference principle].