Saturday, October 24, 2020 1:36 PM

Passed Salution review

- 13. Consider the following three-player team production problem. Simultaneously and independently, each player chooses between exerting effort (E) or not exerting effort (N). Exerting effort imposes a cost of 2 on the player who exerts effort. If two or more of the players exert effort, each player receives a benefit of 4 regardless of whether she herself exerted effort. Otherwise, each player receives zero benefit. The payoff to each player is her realized benefit less the cost of her effort (if she exerted effort). For instance, if player 1 selects N and players 2 and 3 both select E, then the payoff vector is (4, 2, 2). If player 1 selects E and players 2 and 3 both select N, then the payoff vector is (-2, 0, 0).
 - (a) Is there a pure-strategy equilibrium in which all three players exert effort? Explain why or why not.

(0,0,0)=(N,N,N) is the Are NE. I'm hoving a hard time with words, but it makes serve given Aust Problems

No. Any Aboyer Could unitaterally improve from U=4-2 to U=4-0 by not exerting effort.

I'm dund. This notices so much sense, there's no incentive for the third person to exent effort it they get 4 no motter what

(b) Find a symmetric mixed-strategy Nash equilibrium of this game. Let *p* denote the probability that an individual player selects N.

on honestly not sure and don't have the group to Fulk thes through. I work Etis (17, 173, 173)

10-1-20 13-1-13

V. (E) - v. (N)

Duh. Just needed to set equal then Plug and thing