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**HOMEWORK # 2** **ANSWERS**

- (a) Yes, any  $x > 6$  (and only those values of  $x$ ). The strategy is A.
- (b) No, because if player 1 plays A the payoff of player 3 is the same (namely 2) no matter what strategy player 3 chooses.
- (c) Yes  $(F,D)$  is weakly dominated by  $(G,D)$  and  $(F,E)$  is weakly dominated by  $(G,E)$ .
- (d) For  $y \neq 2$  (and only those values of  $y$ ): if  $y > 2$  then  $H$  weakly dominates  $L$  and if  $y < 2$  then  $L$  weakly dominates  $H$ .
- (e) Four:  $(F,D)$ ,  $(F,E)$ ,  $(G,D)$  and  $(G,E)$ .
- (f) One solution is  $(A, (G,E), H)$  and the other is  $(B, (G,D), L)$ .
- (g)  $(A, (G,E), H)$ .
- (h) Because it is not a strategy profile.
- (i) Again, because it is not a strategy profile.
- (j) Yes:  $(A,(G,E),H)$  and also  $(A,(G,E),L)$  and  $(A,(G,D),H)$ .