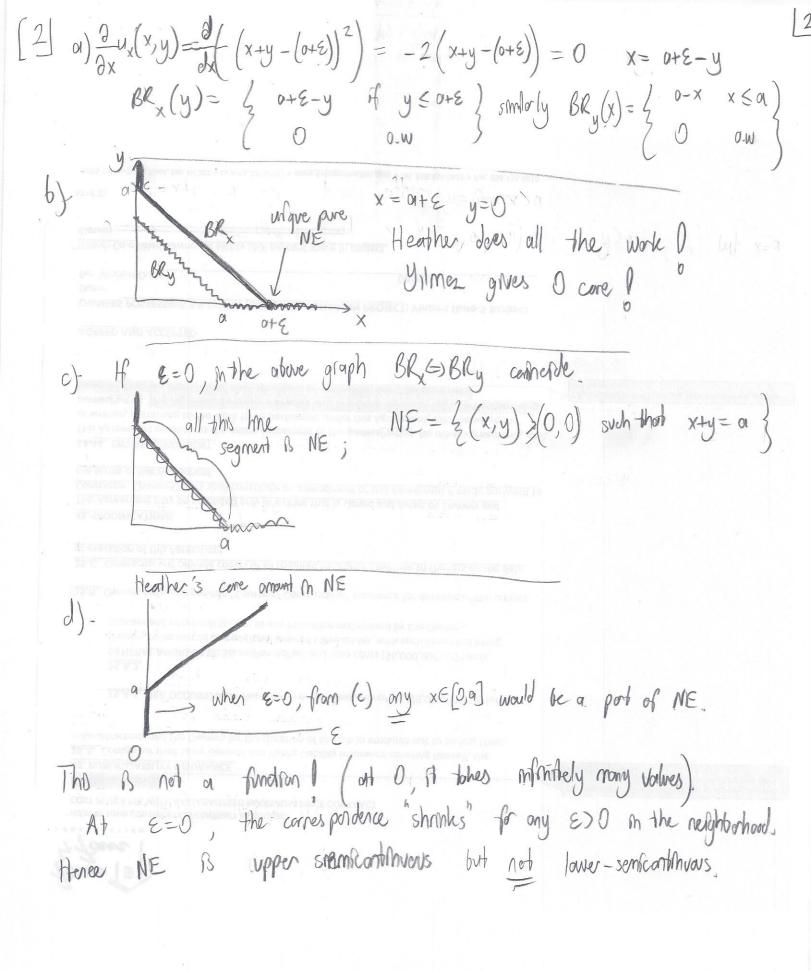
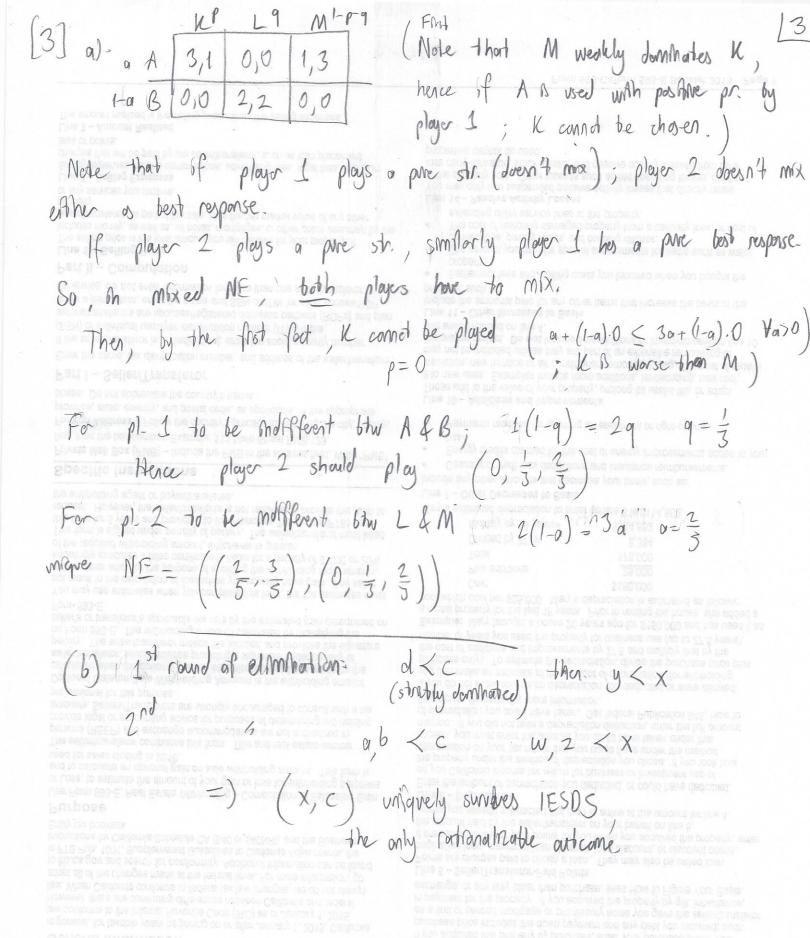
ECON SO4 Gome Theory MIDTERM I ANSWER KEY Yilmer KOCERL Spring 2017 (1) a)- With no signal he gresses A, being %60 right (EUno canal = 0.6) After any signal(s), you'll givess A fif posteror belief 3 0.5 I signal: First check what to do ofter signals; B signal " - Pr (A | signal B) = \(\frac{1}{60} \) \(\frac{3}{20} \) = \(\frac{3}{20} \) \(\frac{3}{20} %60 %20 + %40%80 = 11 < ½ EU_ = 1.60 (1.80.1 + 1.20.0) + 1.40 (1.20.0 + 1.80.1) =) gress B Moderal = 0.8 morginal value of 1st signal = 0.8 - 0.6 = 0.2b) 2 signals: Given above analysis: ofter AA signal -> givess A

BB signal -> givess B

and as signals are symmetre,

AB or BA signal -> givess A <
AB or BA signal -> givess A <
AB or BA signal -> givess A <
AB signal -> $EV_{2} = \frac{1}{60} \left(\frac{1}{80} \frac{1}{60} \cdot 1 + \frac{1}{20} \frac{1}{60} \cdot 0 + \frac{1}{80} \frac{1}{60} \cdot 1 + \frac{1}{20} \frac{1}{60} \cdot 1 + \frac{1}{20$ magnal value of 2nd sgnal is / 0.032) c) 3 syrals Given obove analysis; you'd gives the majority of the signals (or least 2 or of 3) You'd be wrong if either 2 or all 3 signals are wrong; EV₃ = pr (at least 2 signals are correct).1= $(0.8)^3 + (\frac{3}{1})(0.8)^2(0.2) = 0.512 + 0.384$ morginal value of 3rd signal 13 0.896 - 0.832 = 0.064] No value of Mo. not dominishing (this is due to a discreteness effect; of all -similarly for BA-)





2016 Instructions for Form 593-E

(4] (1) Nobody can be tribeted in a pive NE; as they could safely choose 70 Landon ord get tribeted, and be better off.

(2) Suppose not everybody a driving with the same speed. Then there is not least two speeds being used. Anybody in the slaw speed group can switch to a higher speed (and not get tribeted (1)) and be better off.

(3) Everybody driving the same speed, for each $v \in (70, 100]$ is a NE.

And there's no other pive NE. The equ. set doesn't depend an n.

[5] a)- a,b c,d are cyg by d f >h should hold.

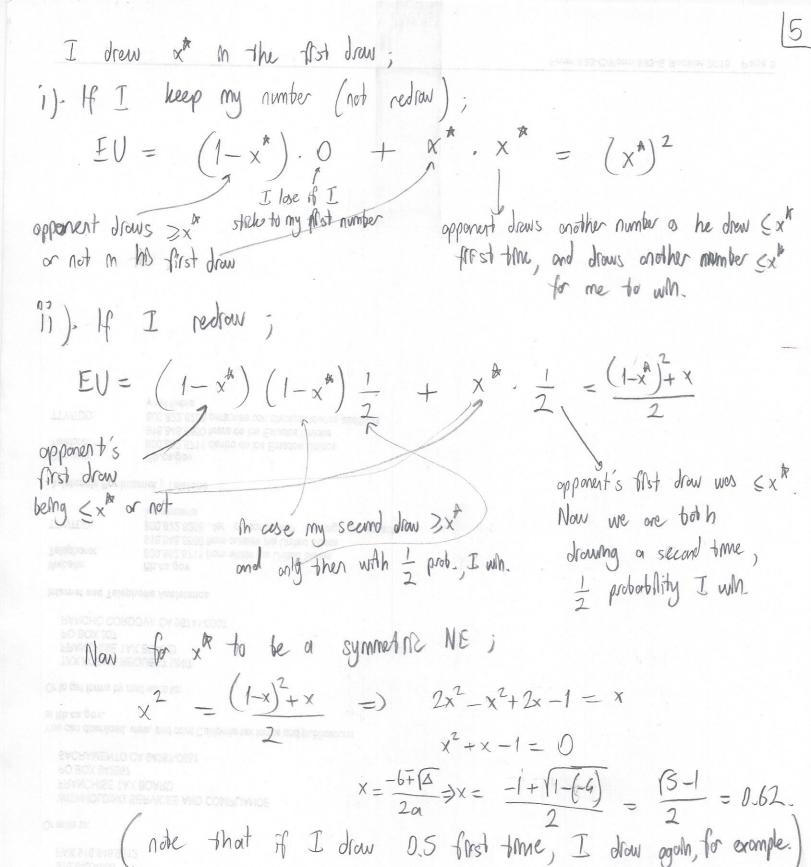
Let f g,h probability = $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$ = $\frac{1}{16}$ For any one of the 4 boxes, total pools = $4 \times \frac{1}{16} = \frac{1}{4}$ (note that all 4 events are mutually exclusive)

b)- For each of the a victories to be str. dominant egm;

for one player's chance should be str. dominant = $pr = \left(\frac{1}{a}\right)^{a}$ hence for the articome to be a str. dom. egm;

total prob are a an articome = a^{N} . a^{N-1} . a^{N-1} .

[6] Assume other player b playing a x^* cutoff strategy, that is drawing a new number of when the first draw $\leq x^*$ for x^* to be an applical cutoff for me, I should be indifferent between redrawing or, not when I get exactly x^* in my first draw.



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