Brandan Partan Assignment 04

1. H = P2A. P1 + 7+7 + 0,+3 F + 3, +0 + 4,+4B. It both players hunt, they both get the highest yield of ment, is strictly claminant stratesy C. (H, H), ANT) are both nash
equilibria since they are the best
responses to each other. 2. AH TCP A. P. AH [-3,-3 0,-4] TCP [-4,0 -2,-2] B. It both players use the TCP, they both experience slightly bod intunet. - If one Unon The other was using Alt. would also use Alt to avoid - 4. - If you know the other was using TCP, would use alt to get 0 las. . . Osing Alt is the Strotly dominant Strategy C. (TCP, TCP) is a NE be it is the best responses to each others strontesy since it onts
the losses of both parties

3. Swerve 5+10,5h+

A. pl Swerve 0,0 -10,+10

Straight +10,-50,-50

B. -If pl urans P2 will sware, stoying
Stronish + isoptimul
-If pl unas P2 will stoy strong ht,
swarving will present - 50 for both
in No dominant strongs

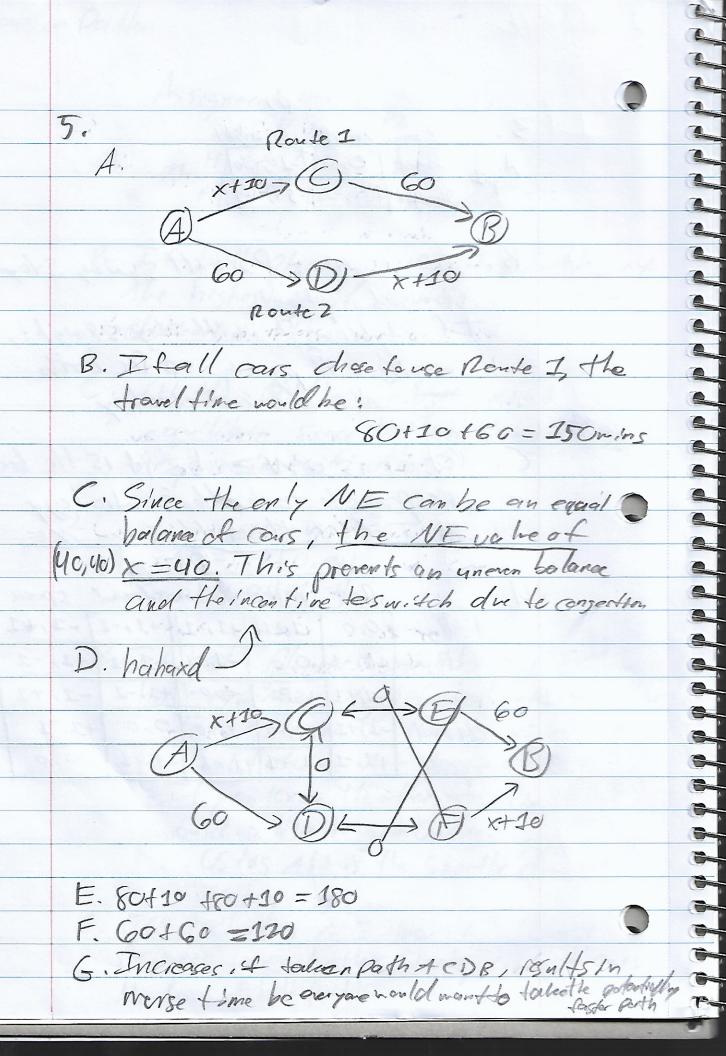
C. (0,0) is a NE be it is the best responses to each other's strategy \* I don't think there's an NE

4. Pake Paper sessors lizard speck

A. Rock 0,0 -1, $\pm 1$  +1,-1 +1,-2 -1, $\pm 1$ Paper +1,-1 0,0 -1, $\pm 1$  -1, $\pm 1$  -1,-1 +2,-1

Sessors -1, $\pm 1$  +1, $\pm 1$  0,0 +1,-1 -1, $\pm 1$ lizard -1, $\pm 1$  +1,-1 -1, $\pm 1$  0,0 +1,-1

Speck +1,-1 -1, $\pm 1$  +1,-1 -1, $\pm 1$  0,0



H. I: X+10+60 30:100 30:100 II: 60 + x+10 20:60 III: x+10+x+10 IV: 60+60 (By assigning 30 cars to P1, 30 to P2, and 20 to R3, reduces total filme possible from 110 - 200. P1: 100, P2: 100, R3:60 A. My Gonsbord submit bid of value c. This is because if cistle whening bid, and say value dis the Second place bid, the payoff is and. Siver we would only have to payd if We win there's no reason to bet any higher or law. If we don't win, payoff-c. Strictly positive gin. Show up because it increases the possibility of a firm that bids higher than our true value of C. Dopending upon the true youlne of each of som, our sides likelihad to succeed Auctuates. Since the values are Or Wate, cannot know for Sure how for Charge our own hid five value, so best plants Sticking with our value c.

This topactor be (why the is who) each choice has a probability of 0.25, ... 0,25 (1+1+1+3)=6/4 B. with 3 bidders Here would be 8 combinating possible, with (3,3,3) girles the highest exposed of 3, any other combination would yield 1. 1, 3(1+1+1+1+1+1+1+3)=3 C. Increoging biolders decreones the chances of the histost expected vorte of 3. This is because all bidders must me p- bid in order to yield 3, and the more bidders there bet law thus reducing the expected revenue from 3 the max.