Dyll Blod EGN 2916 Ledre 17 Gare Theory Bentonel Dogoty - Conjude A prices Example! P=30-Q, Q= 4, +92 So P= 30-4, - 22 MC, =MC2 = 4 (2P=4, Q=26 S (nongle) & = 92 = 13 P=4 % each firm his no incurre to form below MC, but will have under thing reopen Suppose it's a perfect computation is Down on firm's sypply come MC = 4 also malet price of horizontally MC=95 Bertran's competition looks like perfect competition - firm don't want Bertrans comp if products one

horogeneus

To some Bertred wolds, j-st thinh at perfect competition Positive purple are not get substitutes
- when product are not get substitutes
- Similar to monopolistic Competer but with - or Courset competter Betal examples - # consumer can be early charged - Breakfast cereals - whose prices Cournot Competition

ex. airling,

-chook of them stick w/ it Numerical example P=30-Q, Q=4,+92 =30-4,-42 TC, = TC2 = 0 a) Bertud PLQ? MC=0, \$P=0, Q=30 \$ T = 0 since P=0 Gin Bertud, P=MC b) Moropoly PLQ? Q=Q, P=30-Q set Th=(30-0) Q = 30Q - Q2 = M1=30-2Q = 0 =HC (Q=15, P=15) => 7=PQ-TC=225

c) Carrot Competition

$$P=30-Q=30-q_1-q_2$$
 $TR_1 = P_{q_1} = (30-q_1-q_2)q_1 = 30q_1-q_1^2-q_1q_2$
 $MR_1 = \overline{3q_1} = 30-2q_1-q_2$

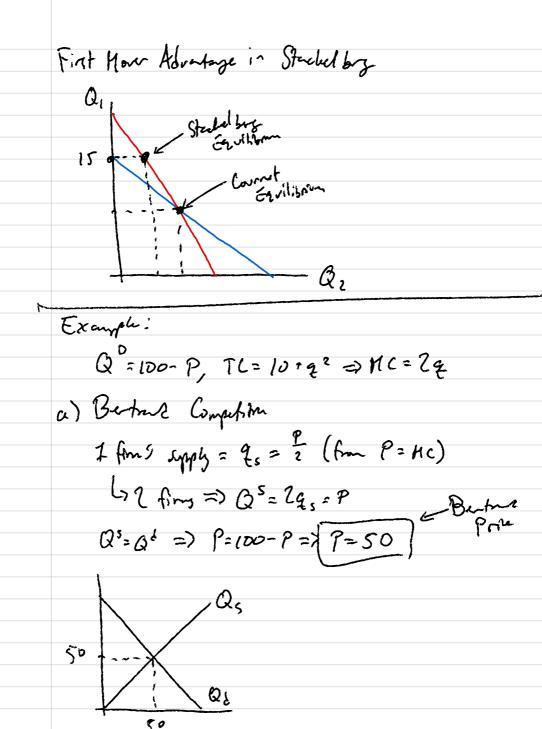
Set $MR_1 = H(1, 0)$
 $30-2q_1-q_2=0$
 $30-q_2=2q_1=2q_1=2q_1=2q_1=2q_1$

Firm we identical, so function

 $q_2=15-\frac{q_1}{2}$

Nagh Equilibria is when both equations held 2,=15- 2, 22=15- 2/3 solve system Here, became firm me idahial, it most be that 9,=92, 50 4,=92=10 =9* => [Q=30] P=10

Bentrud (idnosel gods) Berton 2 (difference 2 Starbelberg Competition
- first compete in quantity but more sequestially
- Solved using backmass induction
- first mover picks q knowing other firm's
reacher from Example: Assure from I was first 92=15- 91 From 2's reason funta -> 11, = Pq, -7c=(70-9, -92)(2,) TR = (30-2, -(15- 4)) (9,) $=154-\frac{21}{2}$ MR = 15-2, = HC = 0 9,=15, 92 reads at picks 7.5 will brown R2 = 42=15- 2



$$P = 100 - 4, -42$$
 $12, = (100 - 4, -42)$