

ch11  $\rightarrow$  perfect competition  $m \rightarrow m$  easy to entry the

ch12  $\rightarrow$  monopoly  $1 \rightarrow m$  market.

ch13  $\rightarrow$  monopolistic  $m \rightarrow m$ .

生活中大部分<sup>↑</sup>

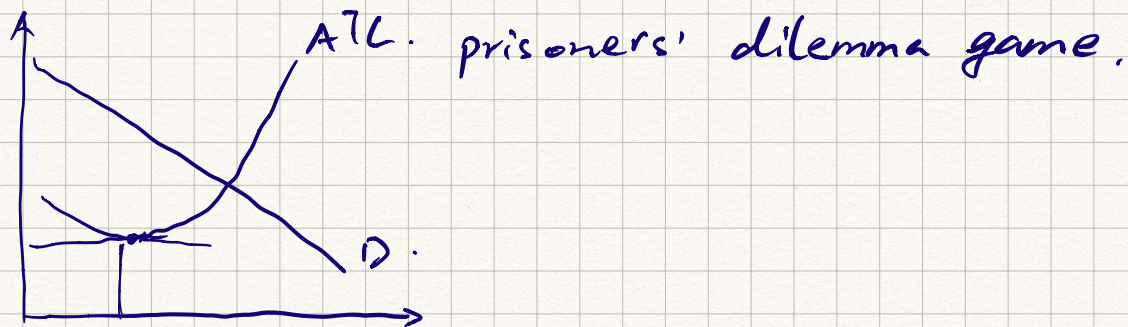
ch14  $\rightarrow$  oligopoly: 几个大公司占据市场.

特点: hard to entry the market.

natural

legal.

duopoly  $\rightarrow$  two producers.



Prisoners' dilemma games.

	B	
	confess	deny
A	confess	(3, 3) (1, 10)
	deny	(10, 1) (2, 2)

A: if B confess  $\rightarrow$  confess  
if B deny  $\rightarrow$  confess.

the same works for B.

\* Nash equilibrium  $\Rightarrow$  both A and B confess,  
the action of A is interdependent with the action  
of B.

Firms are interdependent and face a temptation to  
cooperation.

Cartel: a group that enter a collusive agreement.

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		cheat	comply
A	cheat	0 / 0	-1 / 4.5
comply	4.5 / -1	2 / 2	

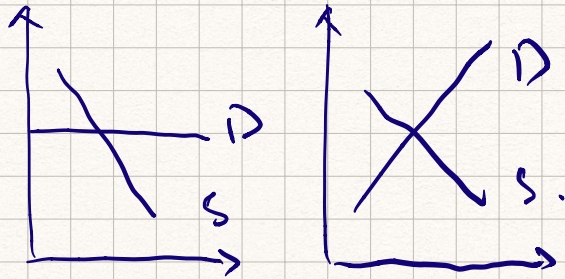
A: if B cheats  $\rightarrow$  cheat.

B: if B complies  $\rightarrow$  cheat.

the same work with B

Both the A and B will cheat.

profit maximization  $\Rightarrow MC = MR$ .



Game of chicken. R&D  $\Rightarrow$  Research & Development.

		B	
		R&D	X
A	R&D	5 / 5	10 / 1
	X	10 / 1	0 / 0

A: if B R&D  $\rightarrow$  X

if B X  $\rightarrow$  R&D.

Dominant's strategy  
independent with other's action.

Punishment strategy:

tit-for-tat strategy:

A cheated  $\rightarrow$  B cheated in the next time.

trigger strategy

now

sequential entry game.



$A$  < monopoly < enter to  
 competitive < out to  
 < out to  
 < enter to

externalities examples:

Negative      Production      Consumption.  
                  pollution      smoking

Positive      bee & flower      vaccination.

MPC & MEC & MSC.

$$MSC = MPC + MEC.$$

