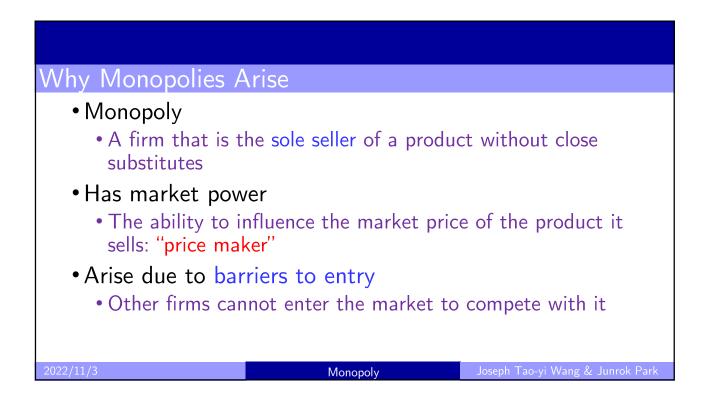


In This Chapter

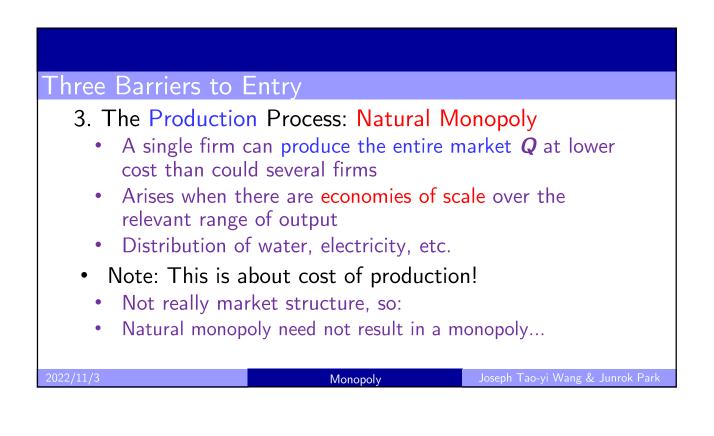
- Why do monopolies arise?
- Why is **MR** < **P** for a monopolist?
- How do monopolies choose their **P** and **Q**?
- How do monopolies affect society's well-being?
- What can the government do about monopolies?

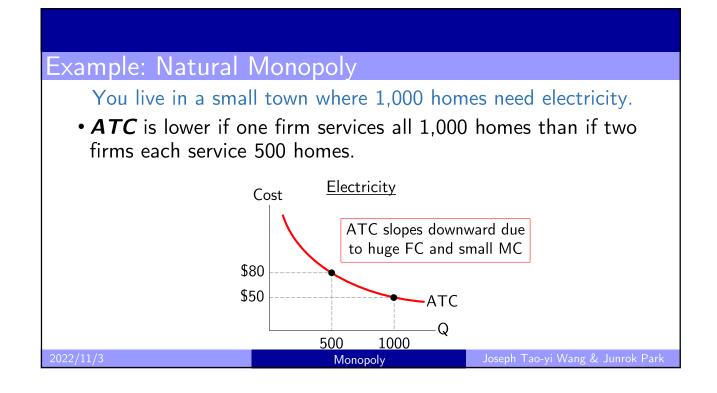
Monopoly

• What is price discrimination?

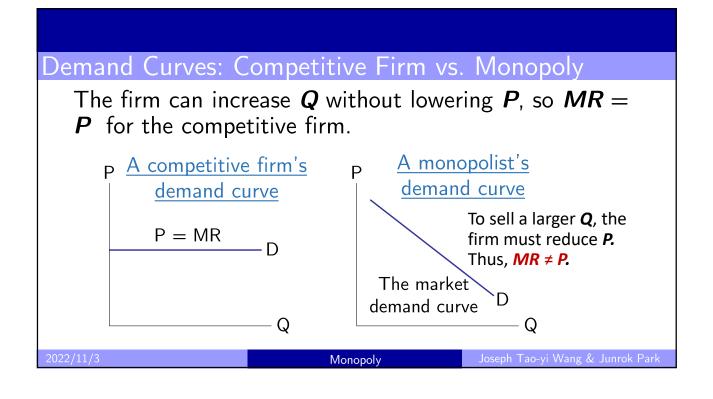


Three Barriers to Entry
 Monopoly Resources A single firm owns a key resource. Single water provider in town
• DeBeers - owns most of the world's diamond mines
 2. Government Regulation The government gives a single firm the exclusive right to produce the good.
 Patent and copyright laws, rice wine
2022/11/3 Monopoly Joseph Tao-yi Wang & Junrok Park





Mananaliusaraua	o man atiti o n	
Monopoly versus C • Competitive Firr		
Price Taker		
Small, one of mFaces individua	any demand at P : perfectly	/ elastic demand
Monopoly Firm Price Maker,		
• Has market pov	ver	
• Faces the entire demand	e <mark>market</mark> demand: down	ward sloping
2022/11/3	Monopoly	Joseph Tao-yi Wang & Junrok Park

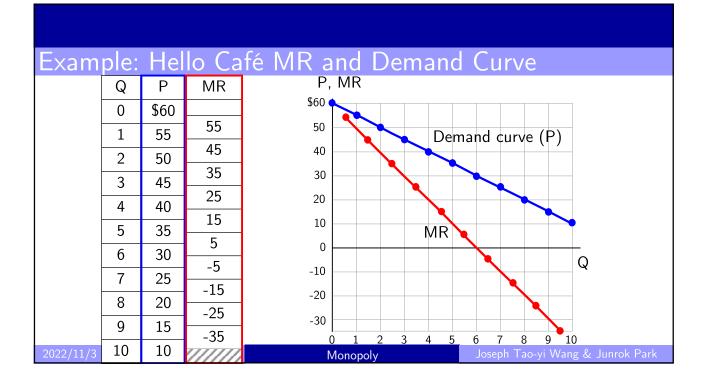


Active Learning 1:	Hello Café (桌	遊	去)	Rever	nue	
Hello Café (桌遊去	去) is the only	Q	P	TR	AR	MR
board game place		0	\$60			
The table shows t	he market	1	55			
demand for game	play.	2	50	Hella	P-1'	
• Fill in the missir	or spaces of	3	45		Cay e	
the table.	ig spaces of	4	40	Ę	之	
		5	35		按	
 What is the rela 	tion between	6	30		L	
P and AR?		7	25	4	0	
• Between <i>P</i> and <i>MR</i> ?		8	20			
		9	15			
2022/11/3	Monopoly	10	10			

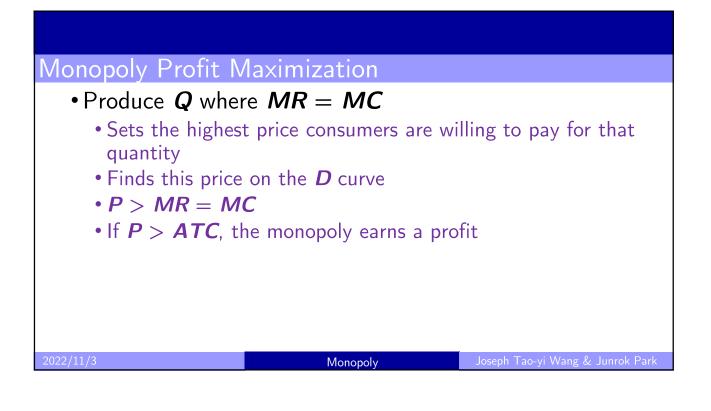


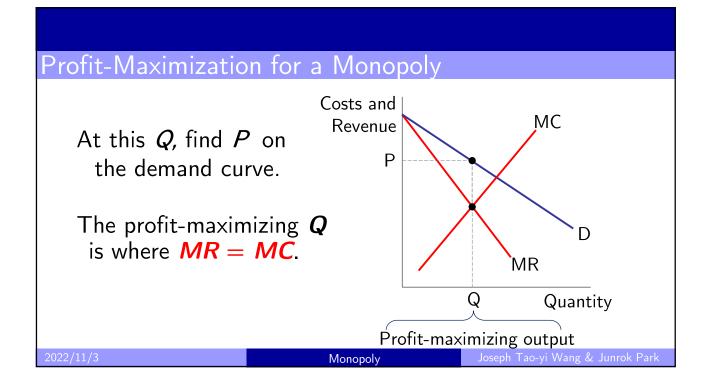


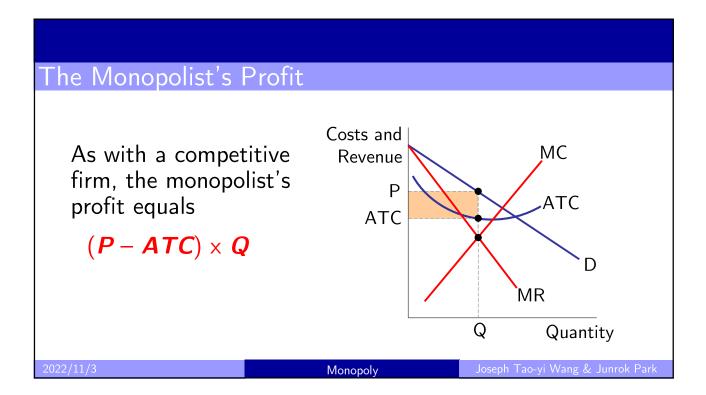
Active Learning 1: Answers							
$\bullet P = AR,$		Q	Р	TR	AR	MR	
same as for a co	mnetitive	0	\$60	\$0	n/a		
firm.	mpetitive	1	55	55	55	55	
		2	50	100	50	45	
		3	45	135	45	35	
• MR < P, where	eas $MR = P$	4	40	160	40	25	
for a competitiv		5	35	175	35	- 15	
		6	30	180	30	5	
		7	25	175	25		
		8	20	160	20	-15	
		9	15	135	15	-25	
2022/11/3	Monopoly	10	10	100	10		

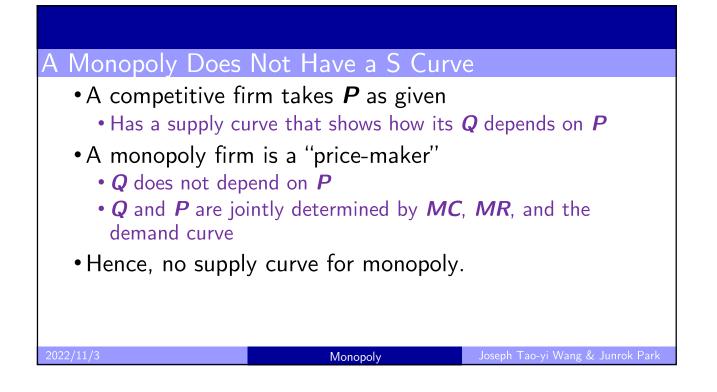


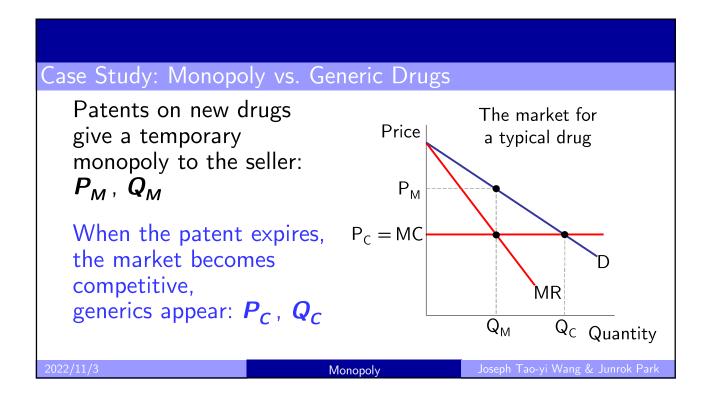
A Monopolist's Re	venue		Q	TR	MR
•Increasing $oldsymbol{Q}$ has	0	\$0	55		
0	Higher output raises reve		1	55	45
•	ower price reduces revenu		2	100	35
			3	135	25
0	• Marginal Revenue, <i>MR < P</i>				
• To sell a larger Q , the monopolist must				175	5
reduce the price on all the units it sells				180	-5
• Is negative if price effect > output effect				175	-15
• Ex: If Hello Café increases Q from 6 to 7				160	-25
	9 10	135 100	-35		
2022/11/3	Monopoly	losenh			nrok Park

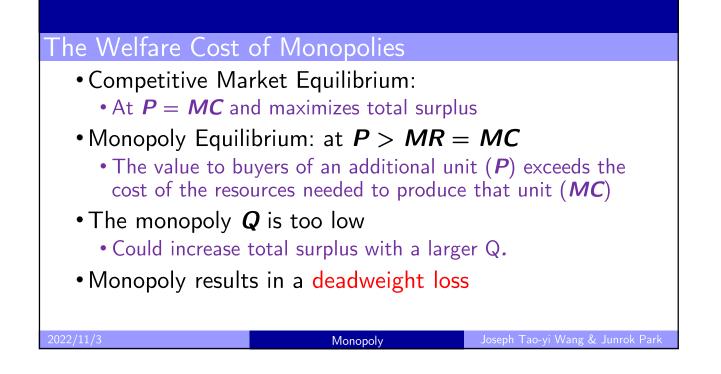


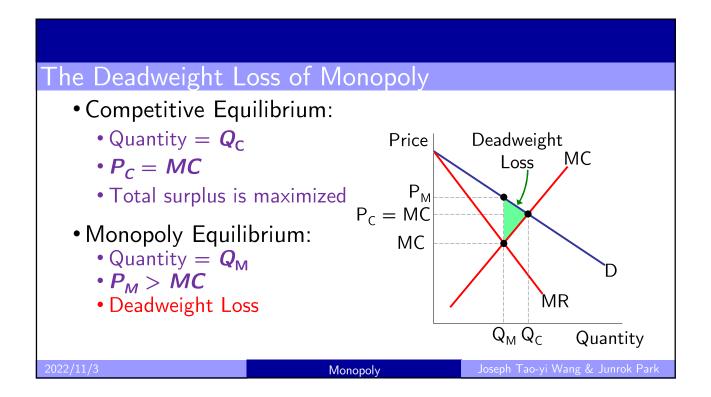




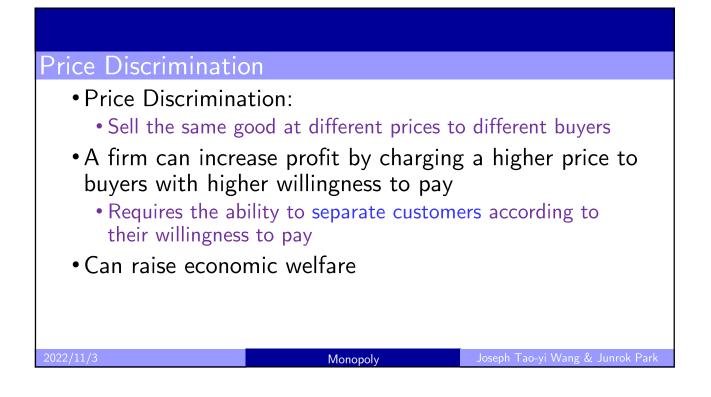


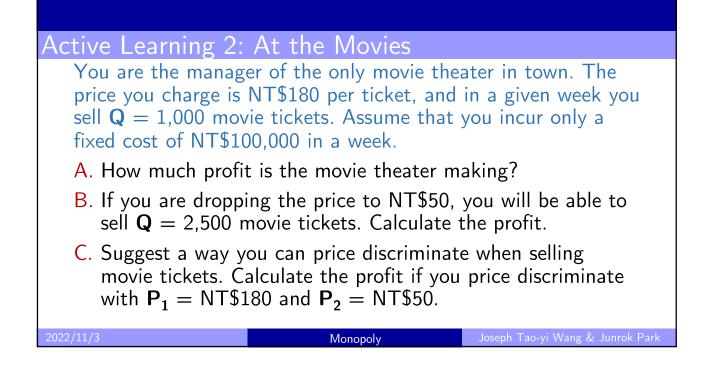


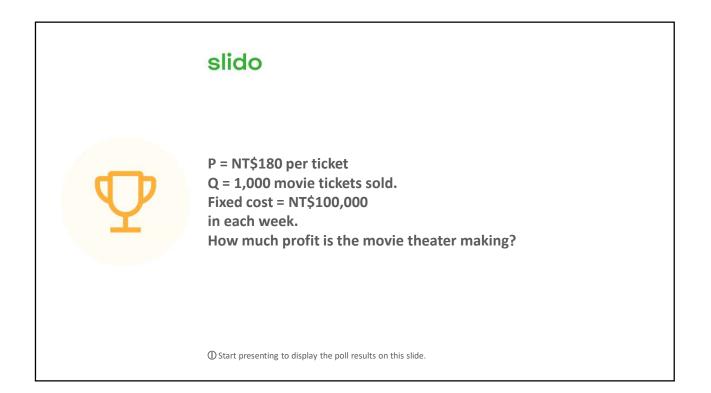




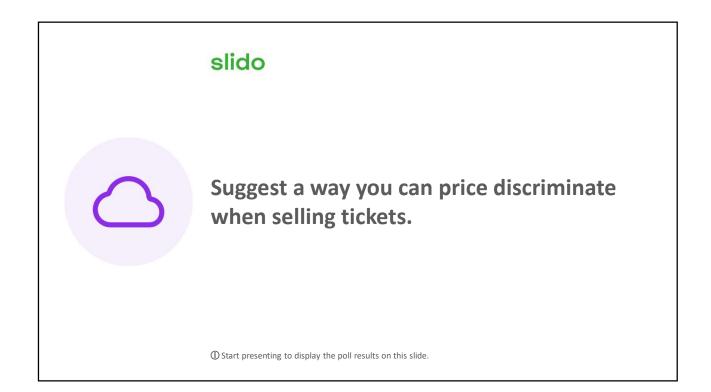
The Monopoly's Pro	ofit. A Social Cost	2
• Monopoly profit i	s not in itself necess	
for society	surplus for monopoly	
Smaller consume		
	us from consumers to r	monopoly
• The inefficiency:		
 Monopoly product Deadweight Loss 	ces $oldsymbol{Q}$ < efficient quant	lity
2022/11/3	Monopoly	Joseph Tao-yi Wang & Junrok Park

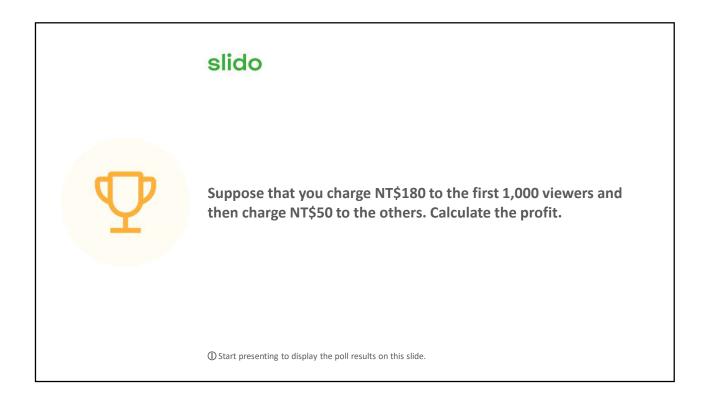


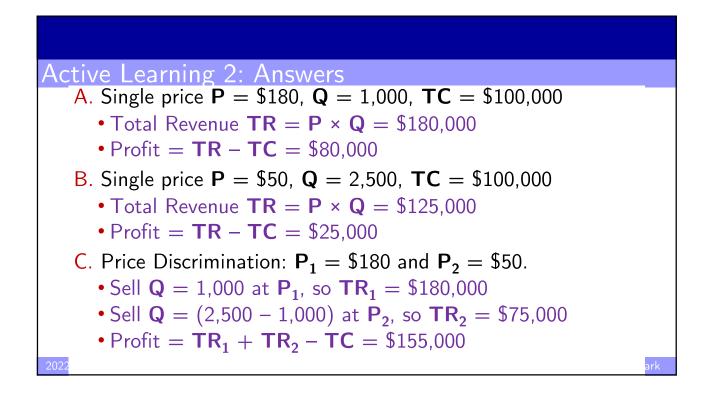


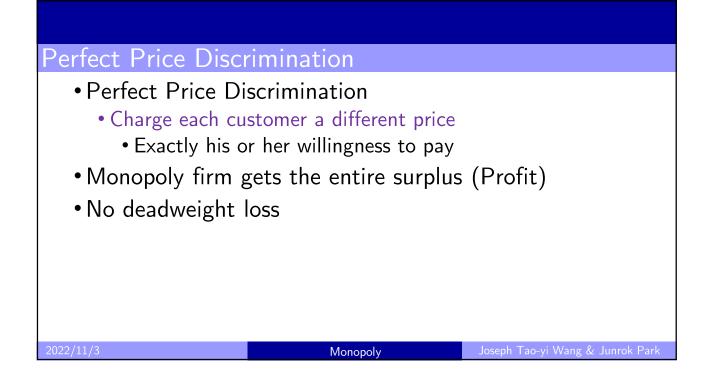


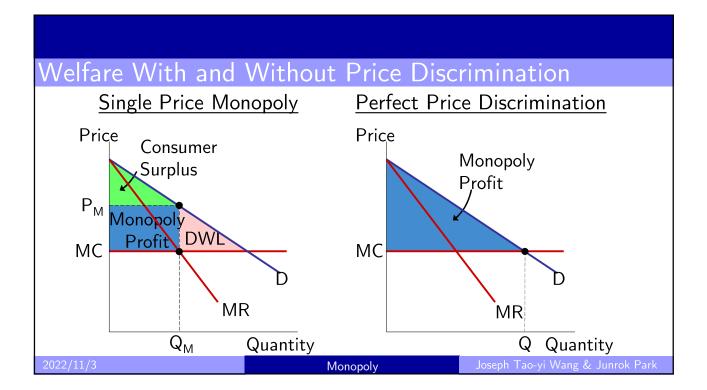


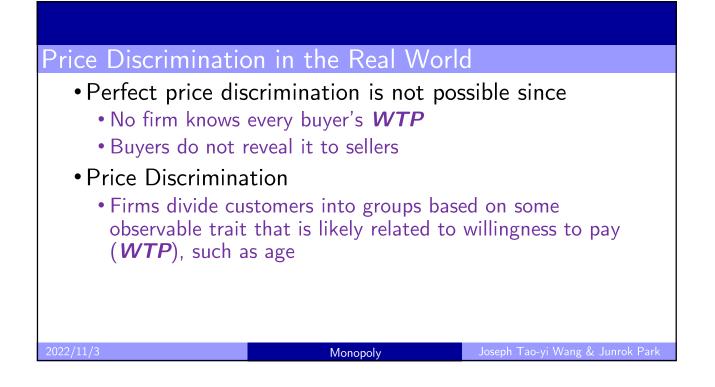


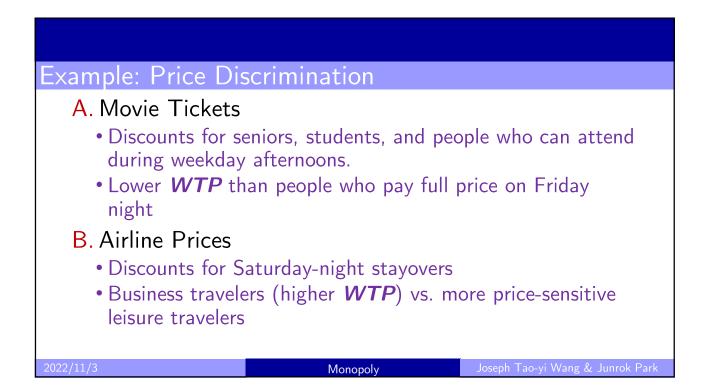






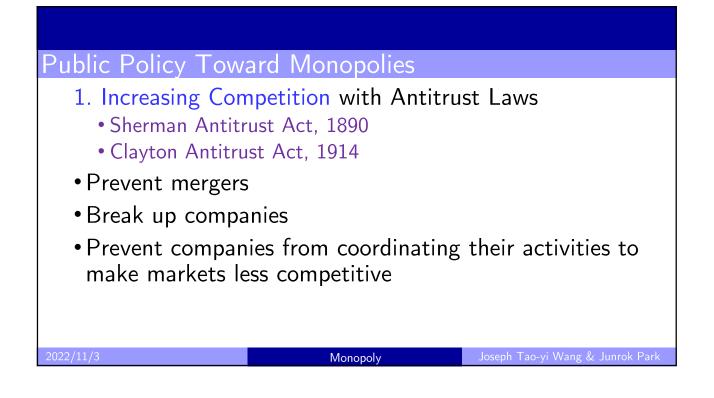


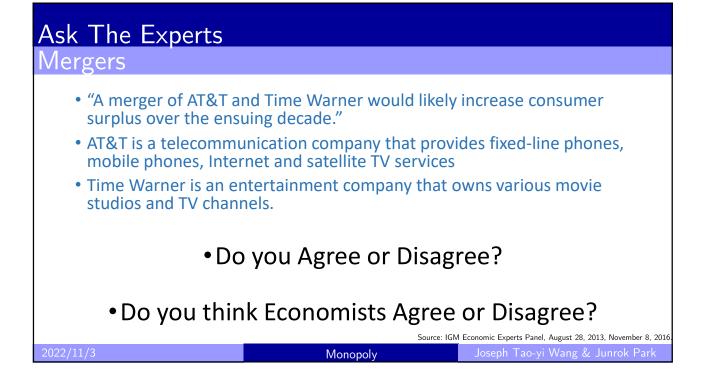


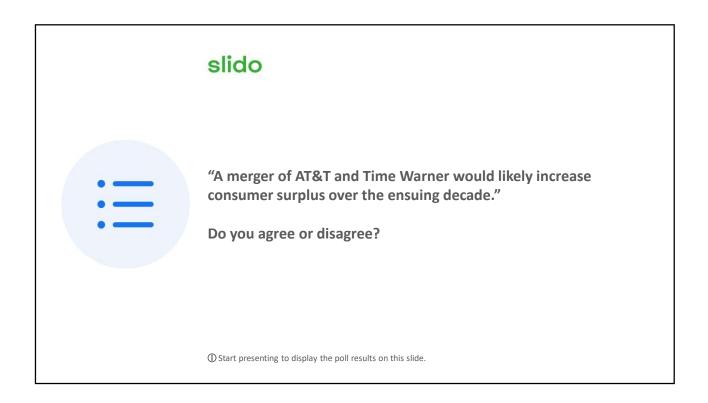


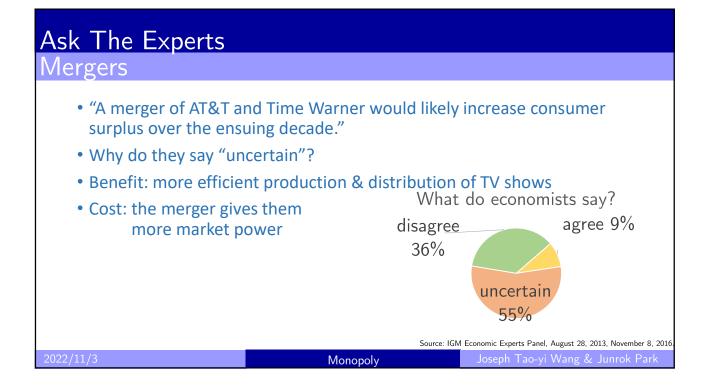
Example: Price Disc	crimination	
	ons e time to clip and organ ve lower income and lo	
college education	ilies have lower WTP f n criminate by offering n	
2022/11/3	Monopoly	Joseph Tao-yi Wang & Junrok Park

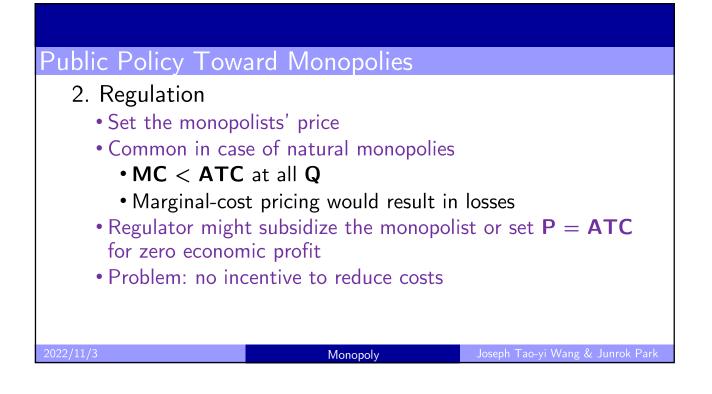
Example: Price Discrimination E. Quantity Discounts						
cha	• A buyer's WTP often declines with additional units, so firms charge less per unit for large quantities than small ones.					
• Ex: Storage size in iPhone 14 Pro						
	Size (GB)	ASizo	Price (LISD)	APrice		
	Size (GB) 128	ΔSize N/A	Price (USD) \$1099	ΔPrice N/A		
	128	N/A	\$1099	N/A		
	128 256	N/A 128	\$1099 \$1199	N/A \$100		
• Ex:	128 256 512	N/A 128 256 512	\$1099 \$1199 \$1399 \$1599	N/A \$100 \$200 \$200		

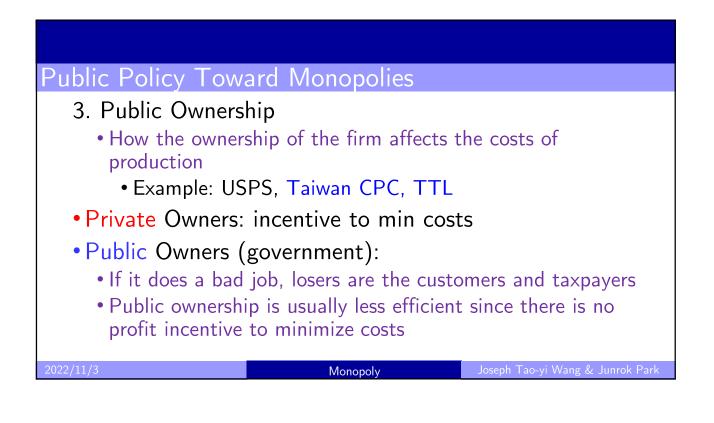


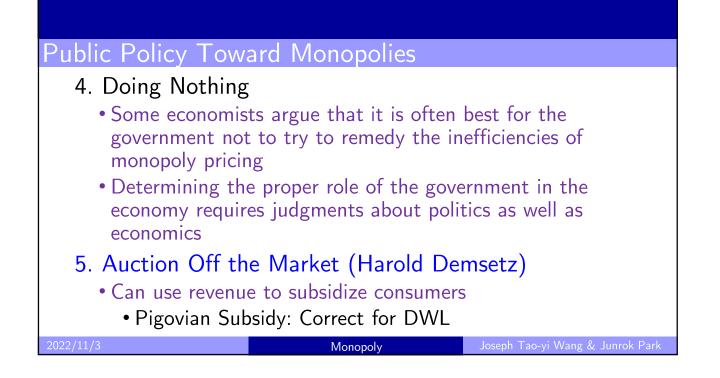


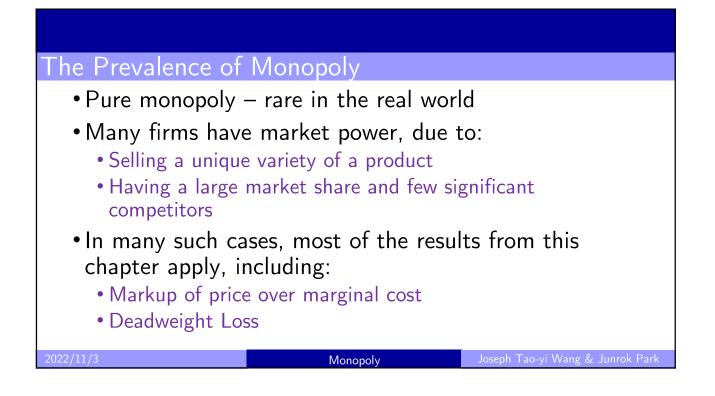












Comp	petition versus Monopoly		N 4 1
		Competition	Monopoly
	Goal of firms	Maximize profits	Maximize profits
Similarities	Rule for maximizing	MR = MC	MR = MC
ties	Can earn economic profits in SR?	Yes	Yes
	Number of firms	Many	One
	Marginal revenue	MR = P	MR < P
Diff	Price	P = MC	P > MC
ere	Produces welfare-maximizing Q?	Yes	No
Differences	Entry in the LR?	Yes	No
	Can earn economic profits in LR?	No	Yes
2022/11/3	Price discrimination possible?	No	Yes



