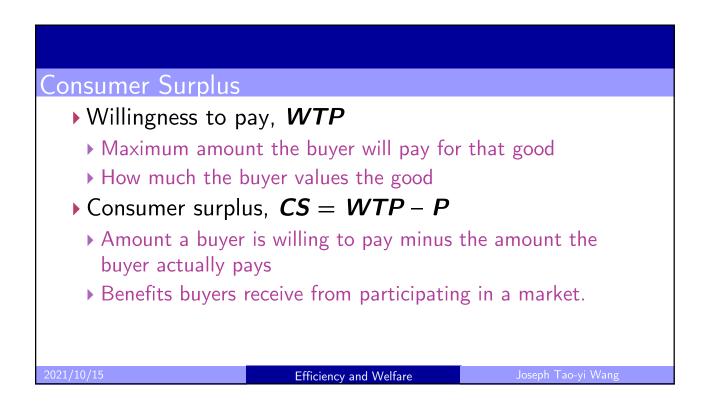
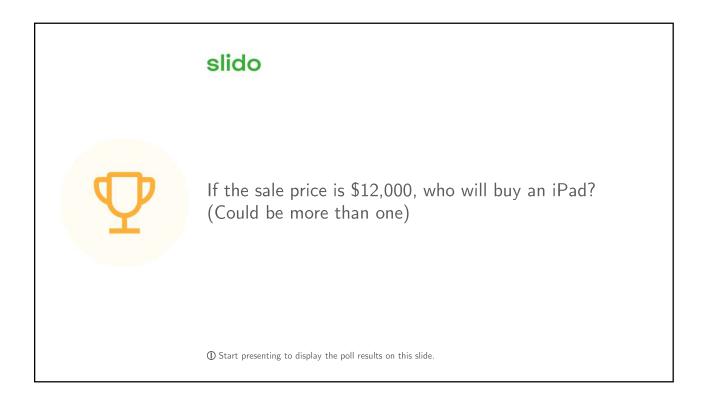


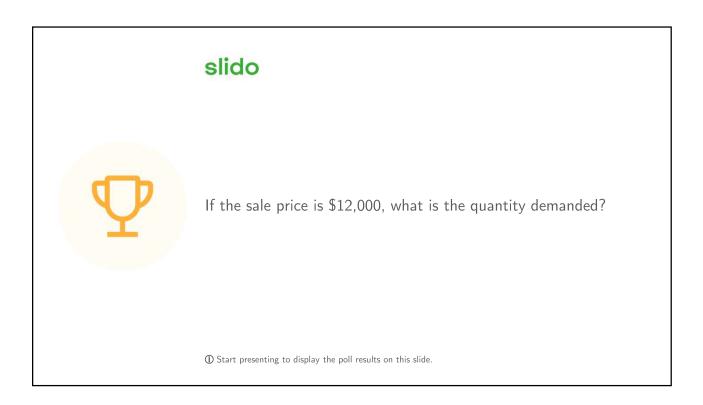
n This Chapter		
What is consumer surplus? How is it related to the demand curve?		
What is producer surplus? How is it related to the supply curve?		
Do markets produce a desirable allocation of resources? Or could the market outcome be improved upon?		
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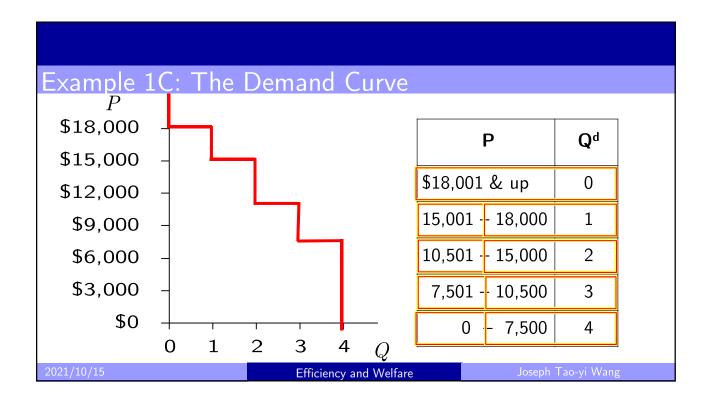
E×	Exampkle 1A: Willingness to Pay						
	You work at the local store that sells refurbished iPads. The store is running a sale on the refurbished iPad mini 5.						
		·	es wants to buy an iF iven in the table belov				
	Name	WTP	Q: If the sale price is \$12,000, who				
	Alexis	\$15,000	buy an iPad, and wl				
	Kelly	10,500	demanded?				
	Quinn	18,000					
	Jamir	7,500					
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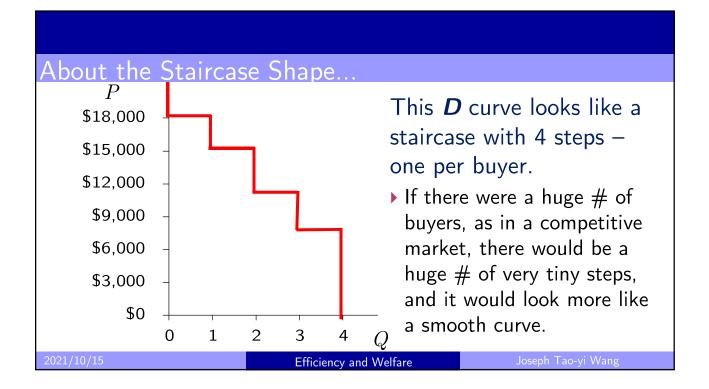


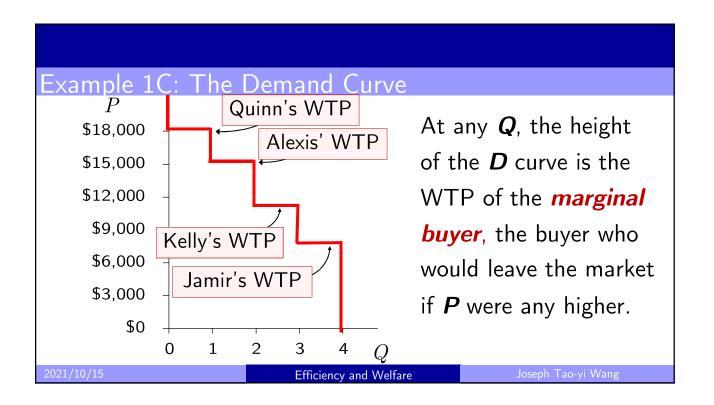


Ex	Exampkle 1A: Willingness to Pay						
			re that sells refurbished Irbished iPad mini 5.	iPads. The store is			
		our roommates given in the tabl	wants to buy an iPad mi le below.	ini 5. Their willingness			
	Name	WTP	Q: If the sale price				
	Alexis	\$15,000	buy an iPad, and w demanded?	nat is the quantity			
	Kelly	10,500	A: Alexis & Quinn v	will buy an iPad mini.			
	Quinn	18,000					
	Jamir	7,500	• Hence, $Q^d = 2$ w	hen $P = \$12,000$			
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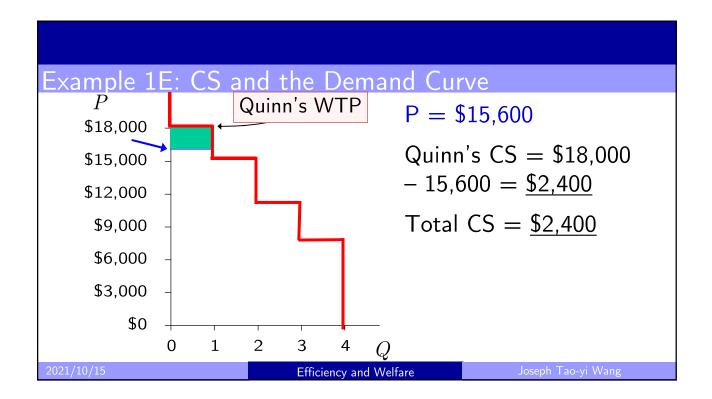
Exam	Example 1B: WTP and the Demand Curve						
Der	Derive the demand schedule:			P (price of iPad mini)		who buys	$Q^d$
	Name	WTP		\$18,001 & up		nobody	0
	Alexis	\$15,000		15,001 - 18,000	)	Quinn	1
	Kelly	10,500		10,501 - 15,000	)   A	lexis, Quinn	2
	Quinn	18,000		7,501 – 10,500	ŀ	Kelly, Alexis, Quinn	3
	Jamir	7,500		0 – 7,500		lamir, Kelly, Alexis, Quinn	4
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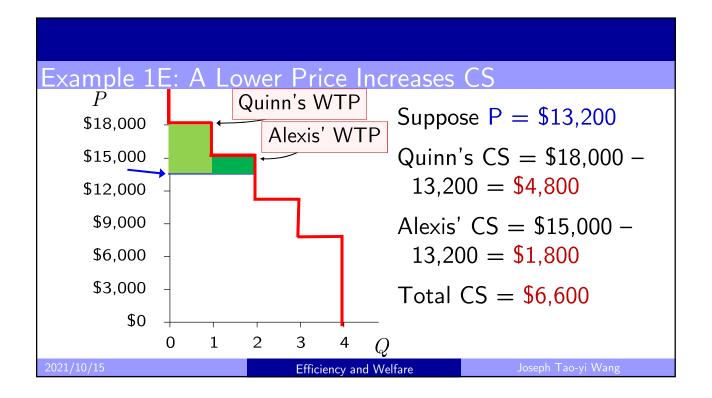


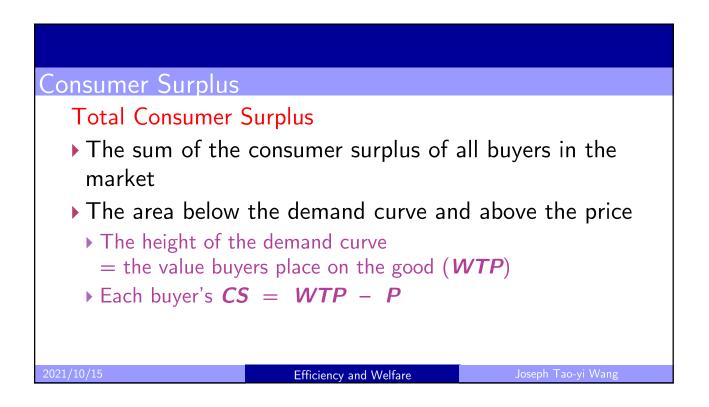


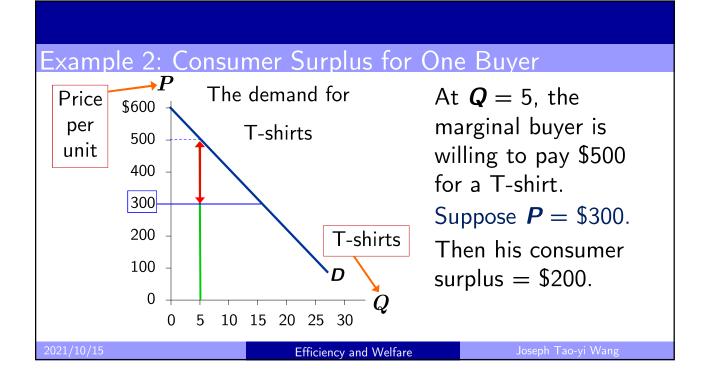


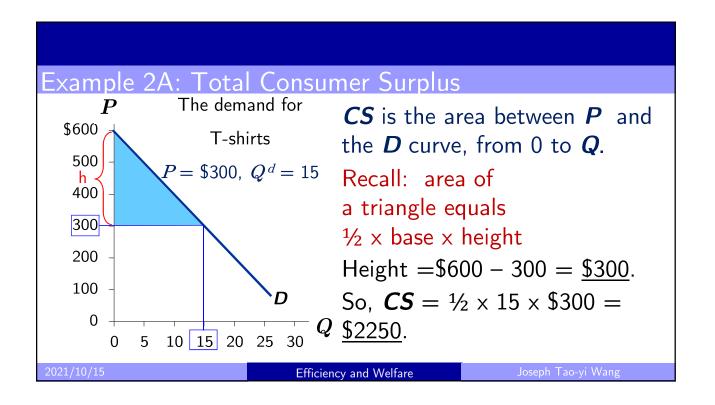
<i>CS</i> = <i>V</i>	VTP - P	Suppose <b>P</b> = \$15,600. ▶ Quinn's <b>CS</b> =
Name	WTP	▶ \$18,000 - 15,600 = \$2,400.
Alexis	\$15,000	▶ The others get no <i>CS</i>
Kelly	10,500	because they do not buy an
Quinn	18,000	iPad mini at this price.
Jamir	7,500	▶ Total <i>CS</i> = \$2,400.

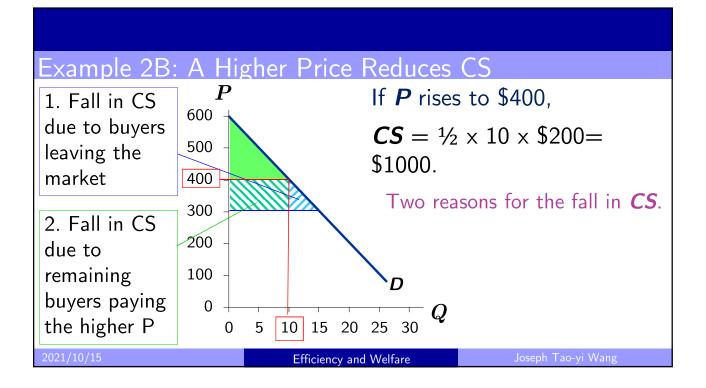






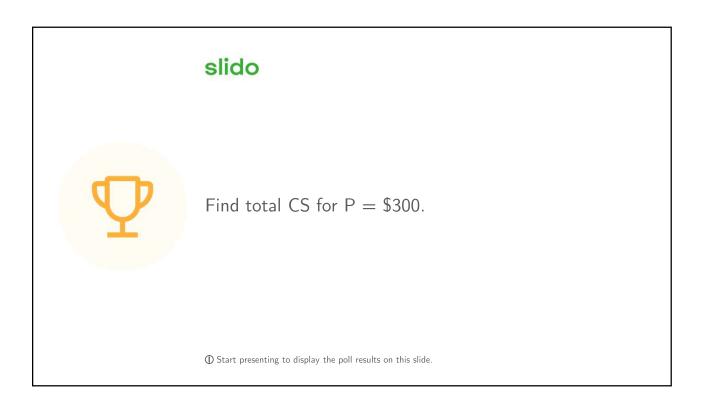


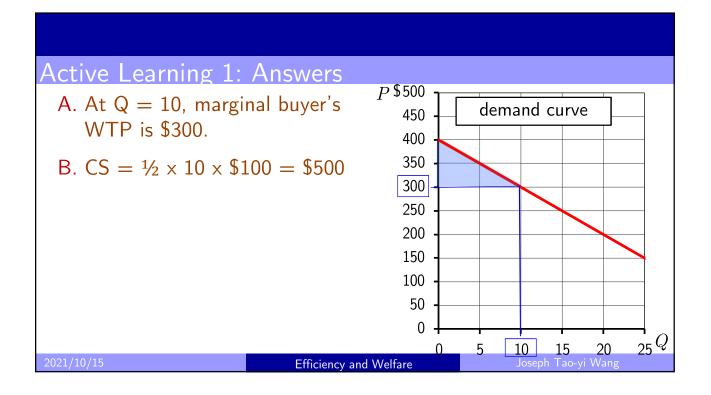


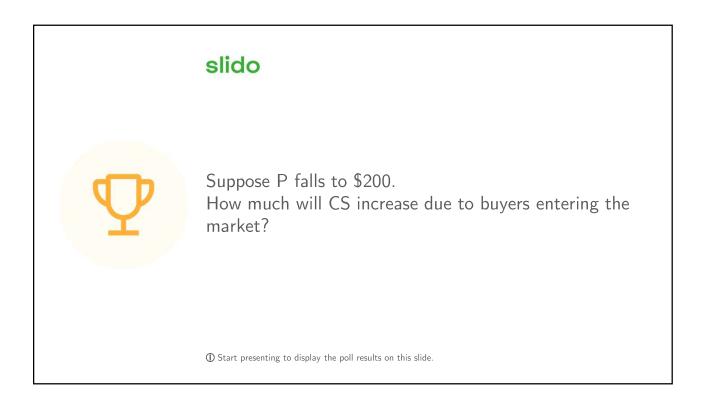


Active Learning 1: Consumer S	Surplus
A. Find marginal buyer's WTP at $Q = 10$ .	450 demand curve
<b>B</b> . Find total CS for $P = $300$	300
Suppose P falls to \$200. How much will CS increase due to	250 200 150
C. buyers entering the market	100
D. existing buyers paying lower price	e 0 - 5 10 15 20 25 Q
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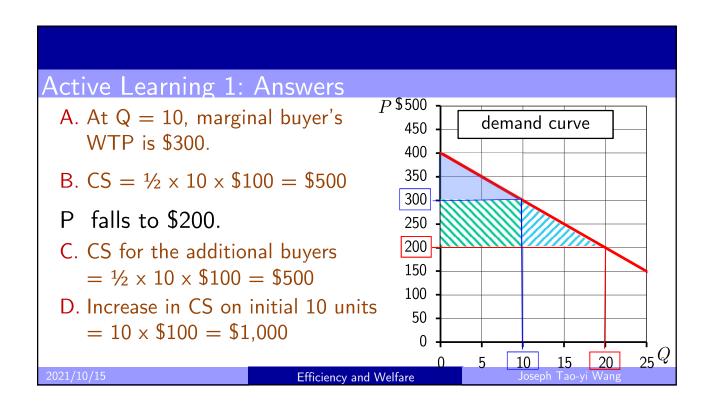




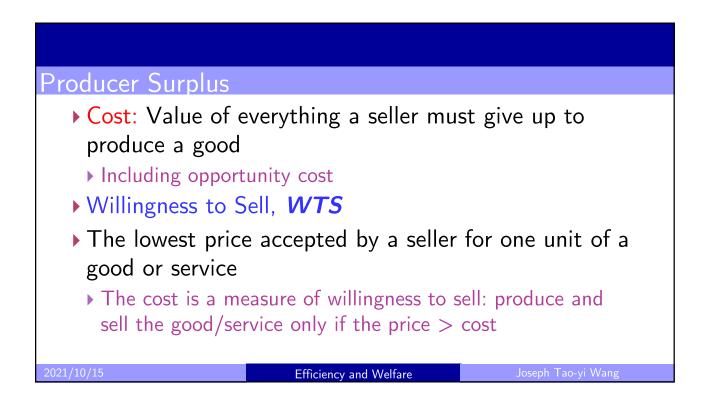


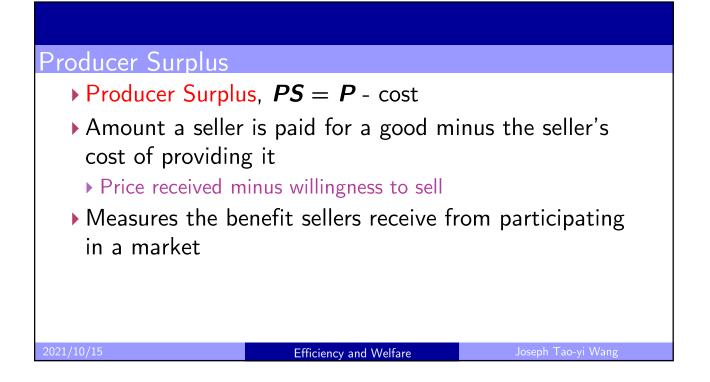




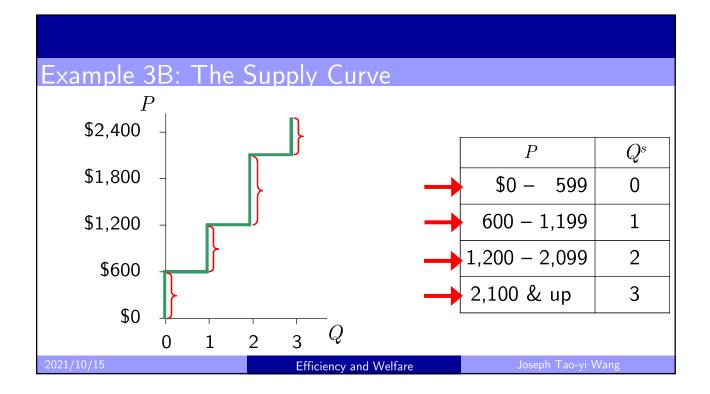


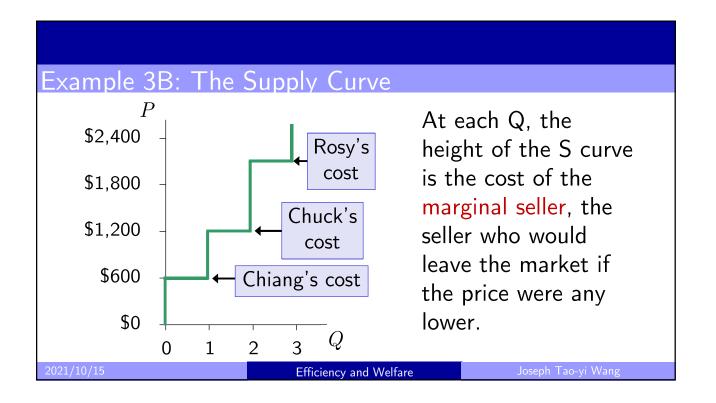


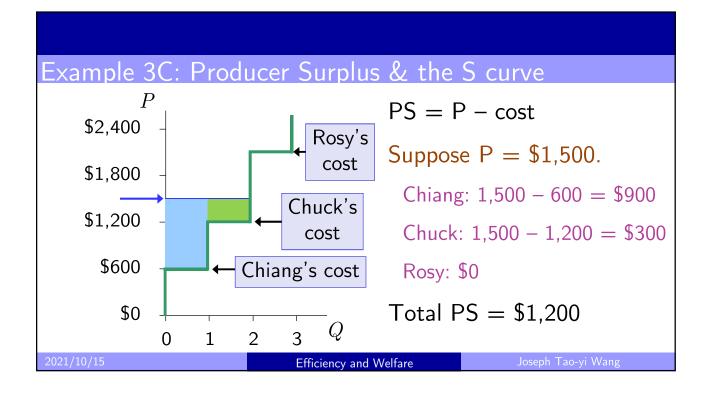


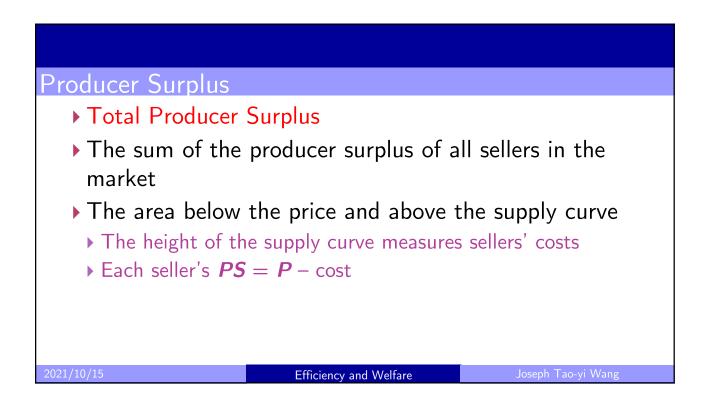


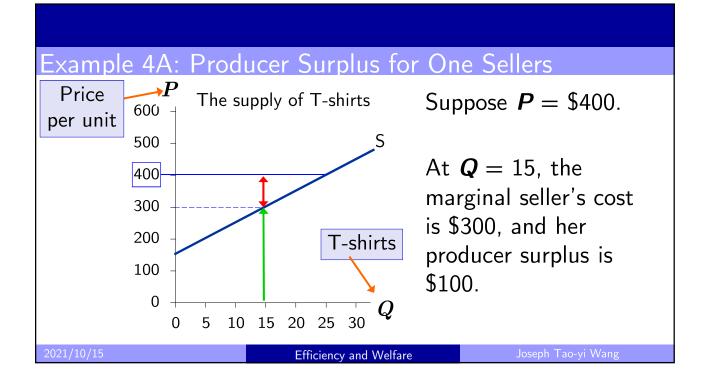
Exa	Example 3A: Cost and Willingness to Sell						
	You are the lucky owner of 3 properties with identical lawns that need mowing. There are 3 lawn-mowing business in town that you can hire. The table below						
			illingness to sell:	P	$Q^s$		
	Name	cost	Q: Derive the supply	\$0 - 599	0		
	Chiang	\$600	schedule from the cost	600 - 1,199	1		
	Chuck	1,200	data.	1,200 - 2,099	2		
	Rosy	2,100		2,100 & up	3		
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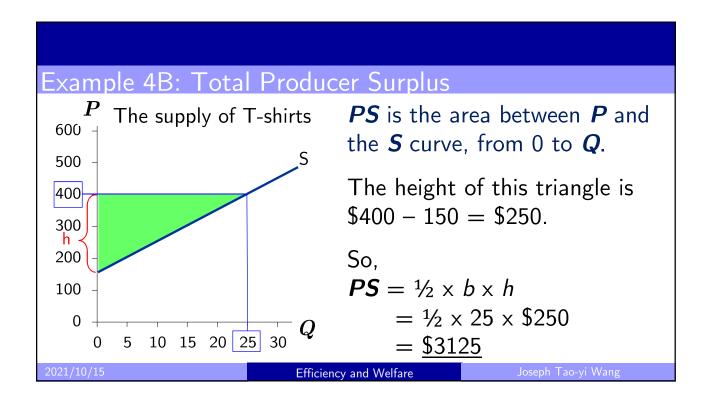


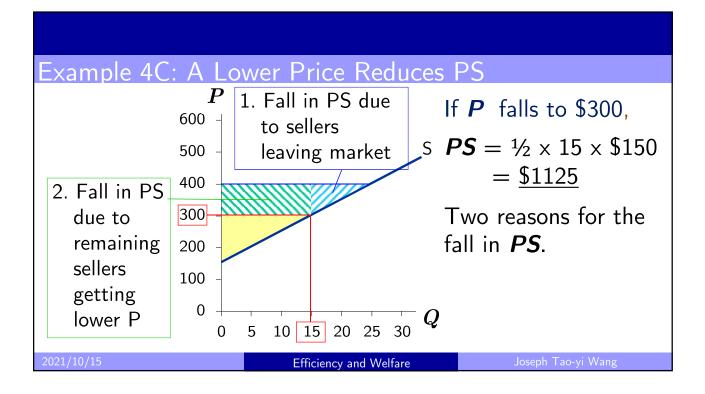


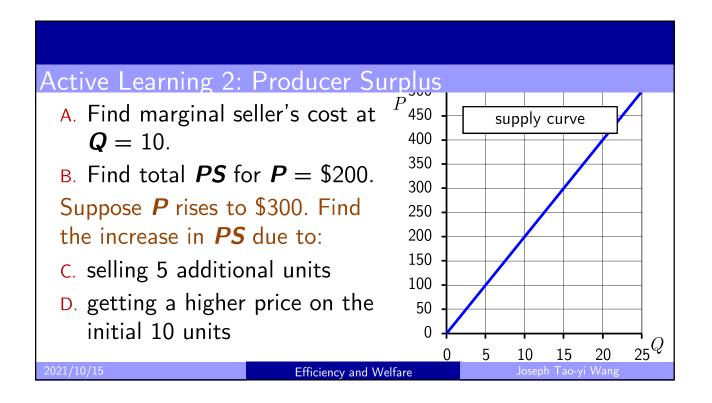




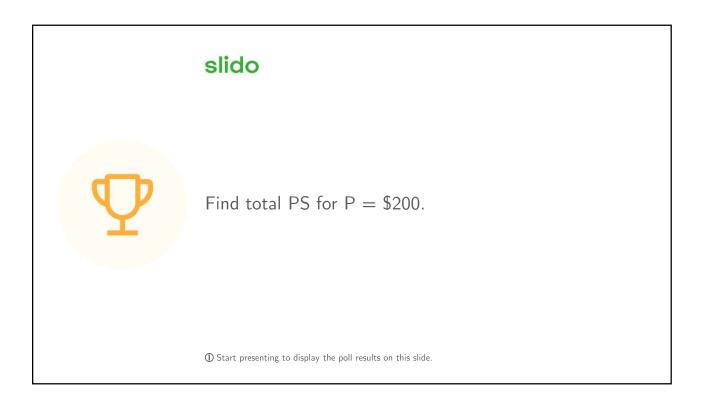


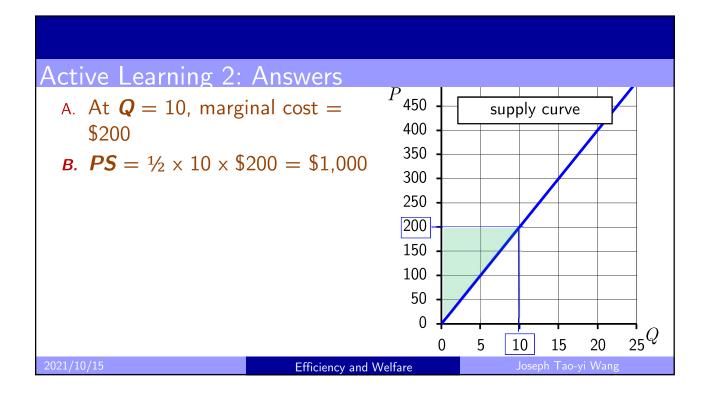




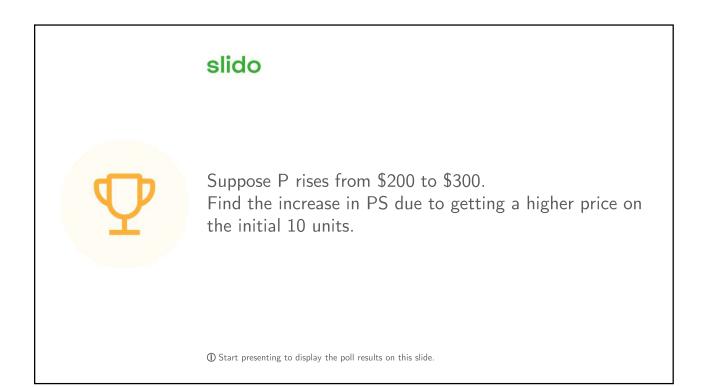


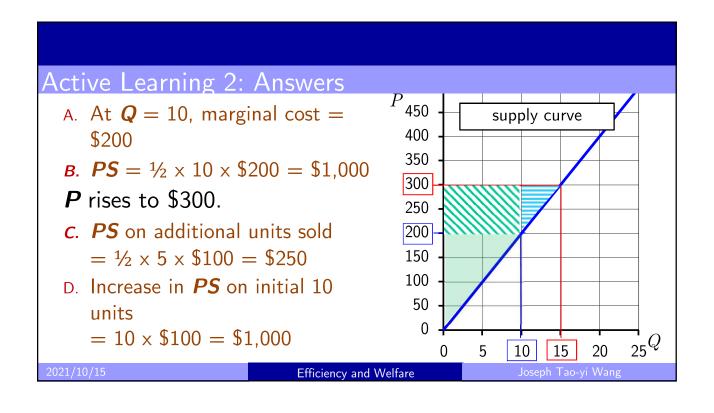


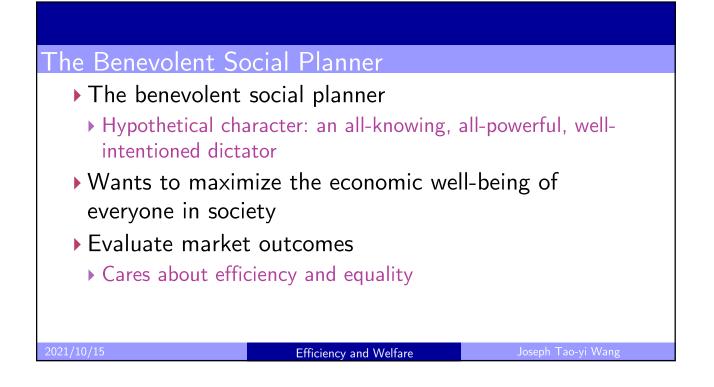


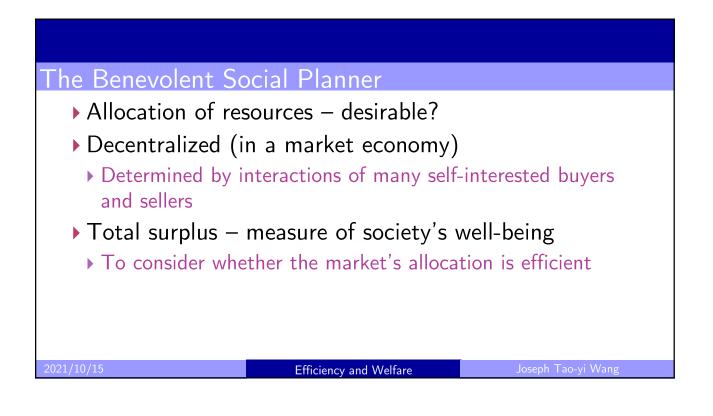




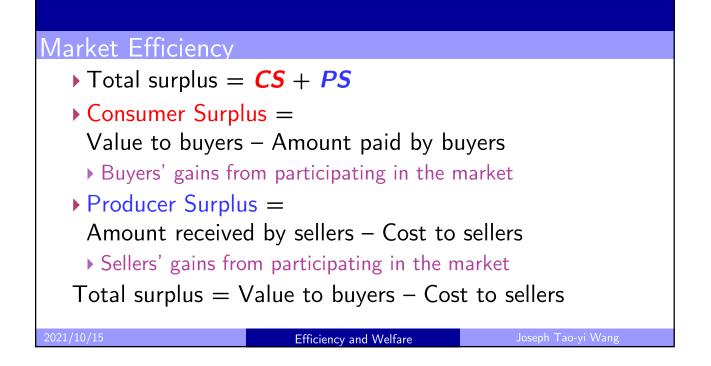






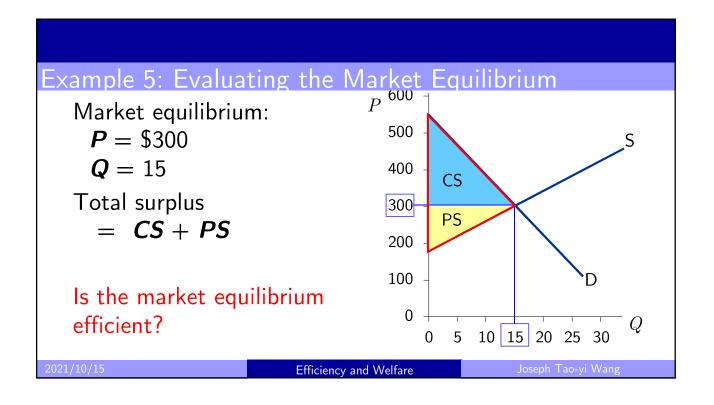


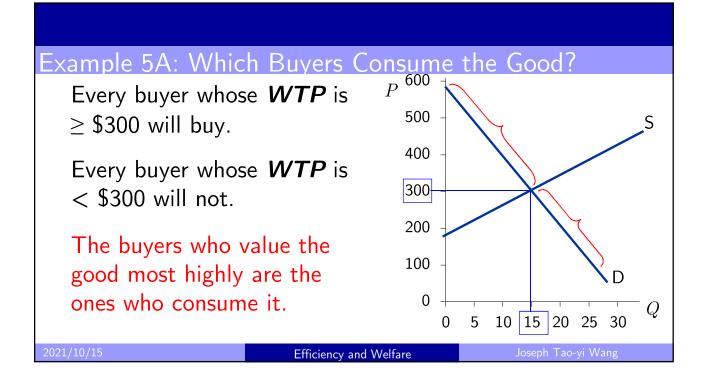
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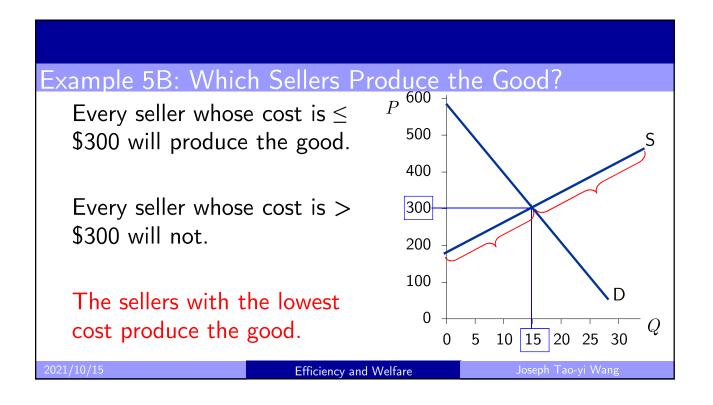


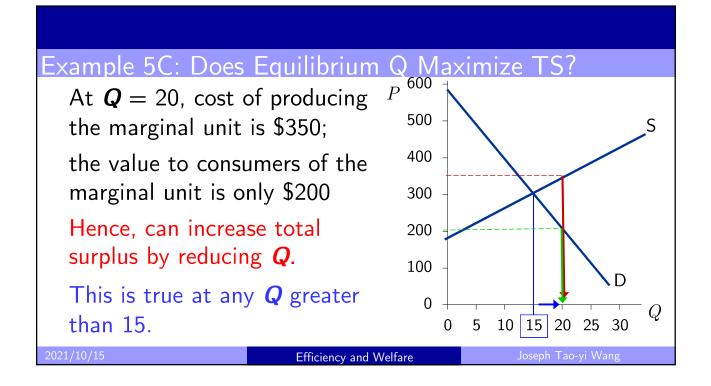
Market Efficiency				
▶ Efficiency				
<ul> <li>The allocation of resources maximizes total surplus</li> <li>Is the pie as big as possible?</li> <li>Equality</li> </ul>				
<ul> <li>Distribute economic prosperity uniformly among the members of society</li> </ul>				
<ul> <li>Every member of society gets an equal slice of the pie?</li> <li>2021/10/15 Efficiency and Welfare Joseph Tao-yi Wang</li> </ul>				

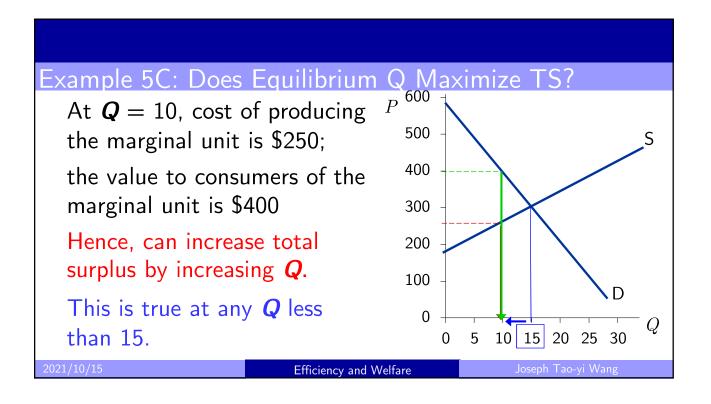
Market's Allocation of Resources					
Free Market Outcomes:					
1. Allocate the supply of goods to the buyers who value					
them most, as measured by their WTP					
2. Allocate the demand for goods to the sellers who can					
produce them at the lowest cost					
3. Produce the quantity of goods that maximizes the					
sum of consumer and producer surplus					
Raising or lowering the quantity of a good would not					
increase total surplus					
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## Adam Smith and the Invisible Hand

Passage from The Wealth of Nations, 1776

"It is not from the benevolence of the butcher, the brewer, or the baker that we expect our dinner, but from their regard to their own interest.

Every individual... neither intends to promote the public interest, nor knows how much he is promoting it....

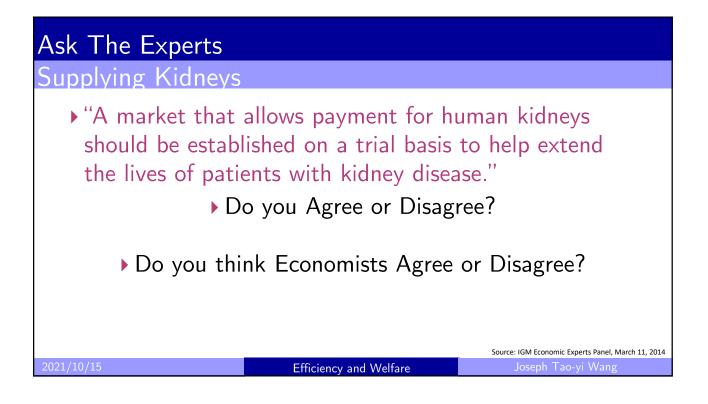
He intends only his own gain, and he is in this, as in many other cases, led by an invisible hand to promote an end which was no part of his intention....

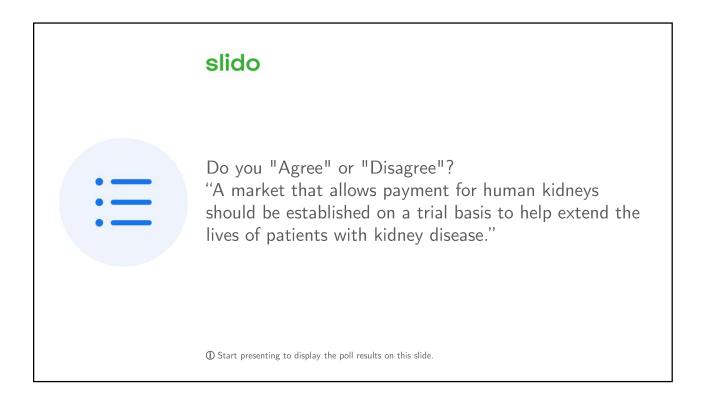


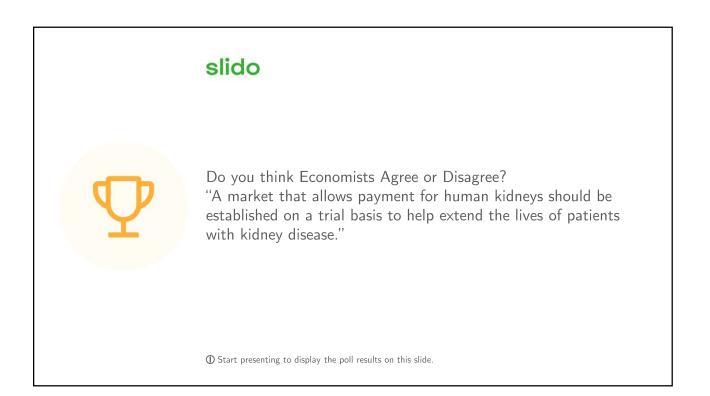
By pursuing his own interest he frequently promotes that of the society more effectually than when he really intends to promote it." 2021/10/15 Efficiency and Welfare Joseph Tao-yi Wang

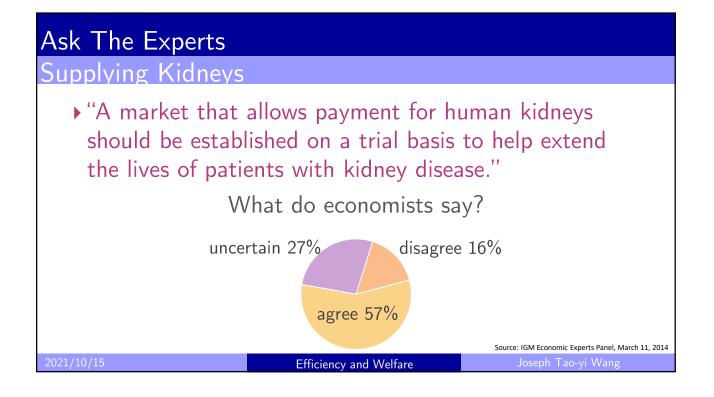


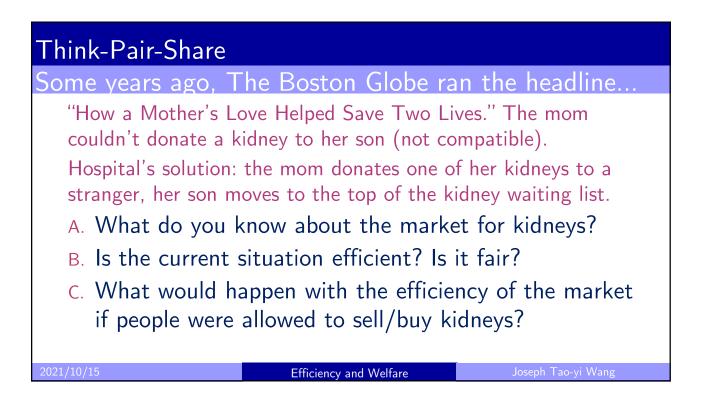
Market Efficiency and Market Failure			
Market failures			
<ul> <li>Market power: a single buyer or seller (small group) control market prices</li> <li>Markets are inefficient</li> </ul>			
<ul> <li>Markets are inefficient</li> <li>Externalities: decisions of buyers and sellers affect people who are not participants in the market at all</li> <li>Inefficient equilibrium - from the standpoint of society as a whole</li> </ul>			
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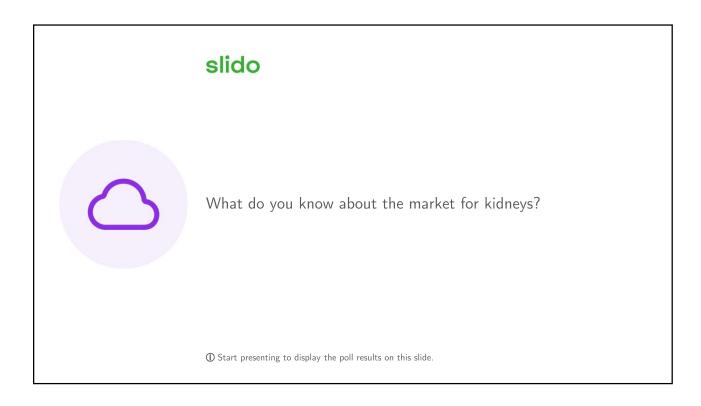










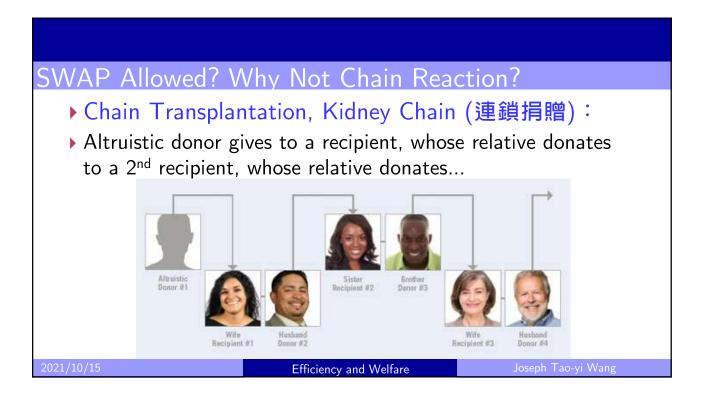






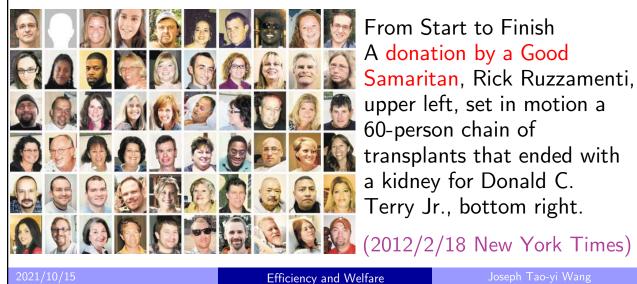


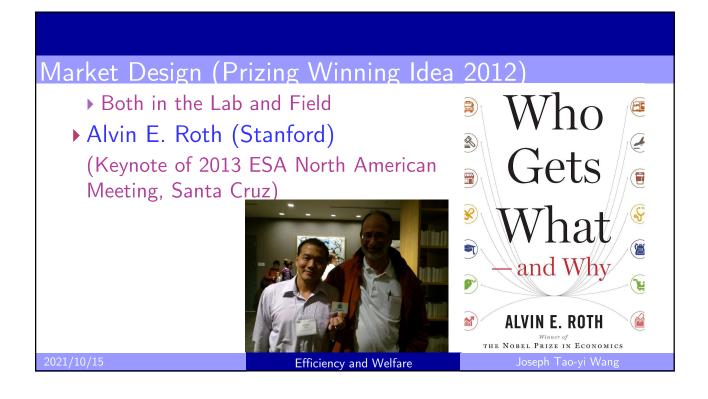




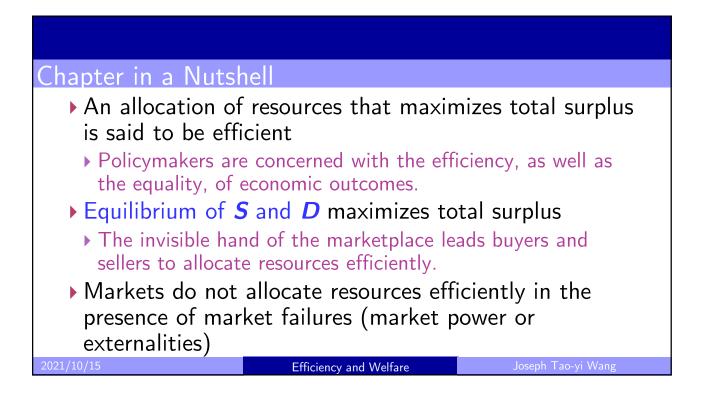
## 「肝肝相連到天邊」

<u>60 Lives, 30 Kidneys, All Linked</u>

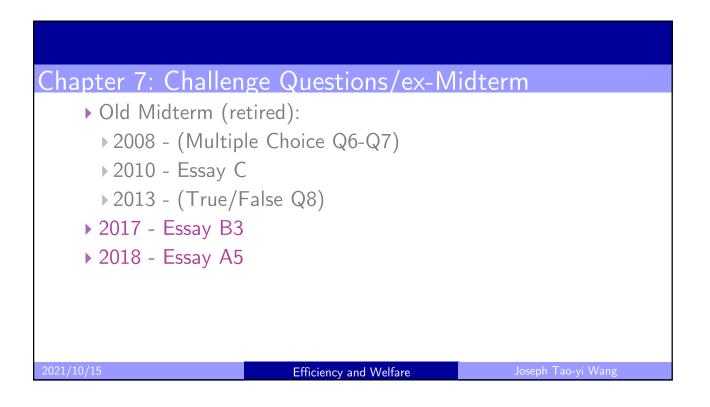




Chapter in a Nutshell			
Consumer Surplus: buye minus the amount they	rs' willingness to pay for a goo actually pay	bd	
<ul> <li>Measures the benefit buye market</li> </ul>	<ul> <li>Measures the benefit buyers get from participating in a market</li> </ul>		
• Area below the <b>D</b> curve a	nd above <b>P</b>		
Producer Surplus: amount sellers receive for their goods			
minus their costs of production			
Measures the benefit sellers get from participating in a market			
Area below P and above the S curve			
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Chapter 7: Efficiency and Welfare				
Consumer Surpl	Consumer Surplus + Producer Surplus			
= Total	Surplus (maximized at E	Equilibrium)		
► Efficiency vs. Eq	Juality			
► Homework:	▶ Homework:			
Mankiw, Ch.7, Problem 6, 7, 9-11				
Additional Questions:				
True or False. If consumers buy 1,000 heads of lettuce per week, and if the price of lettuce falls by \$1 per head, then the consumer surplus will increases by \$1,000.				
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Video for Self-Study
Chapter 6: Price Control and Taxation
Markets are good? Price control is bad!
• Taxation forms a wedge between $P_b$ and $P_s$
Homework:
▶ Mankiw, Ch. 6, Problem 3, 5, 7-10
Additional Questions:
<ul> <li><u>True</u> or <u>False</u>. A price ceiling on wheat would cause the price of bread to fall.</li> </ul>
▶ <u>True</u> or <u>False</u> . iPhone 13 contain A15 CPUs made by TSMC.
If Apple made its own CPUs, iPhone 13 would be cheaper.
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