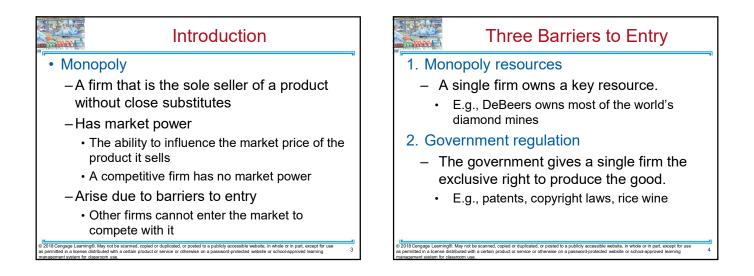
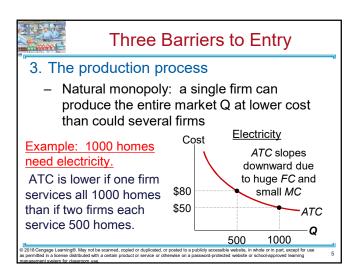


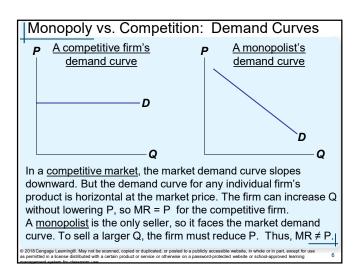
#### Look for the answers to these questions:

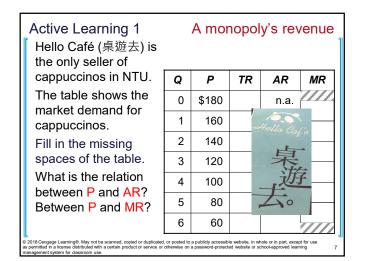
- · Why do monopolies arise?
- Why is MR < P for a monopolist?
- · How do monopolies choose their P and Q?
- How do monopolies affect society's wellbeing?
- What can the government do about monopolies?
- What is price discrimination?

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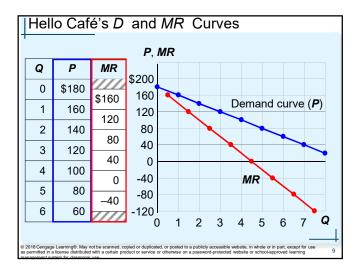


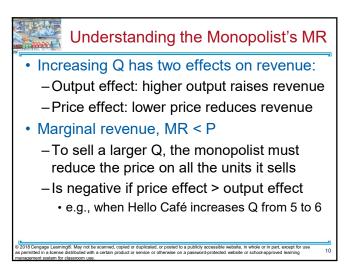


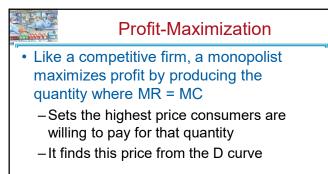




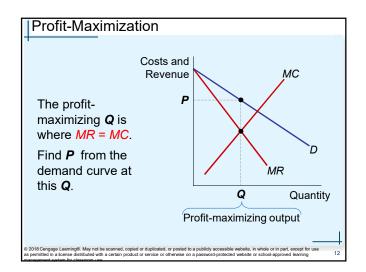
Active Learning 1			Answers			
• P = AR,	Q	Р	TR	AR	MR	
same as for a	0	\$180	<b>\$</b> 0	n.a.	\$160	
competitive firm.	1	160	160	\$160	\$100 120	
• MR < P, whereas	2	140	280	140		
MR = P for a	3	120	360	120	80	
competitive firm.	4	100	400	100	40	
	5	80	400	80	0	
	6	60	360	60	_40	

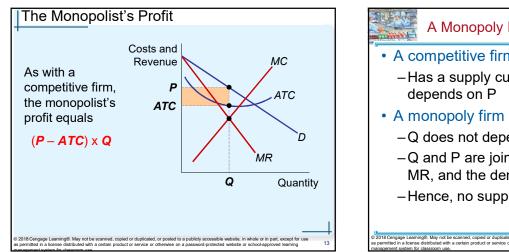


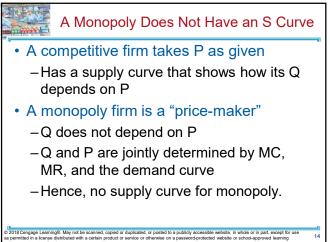


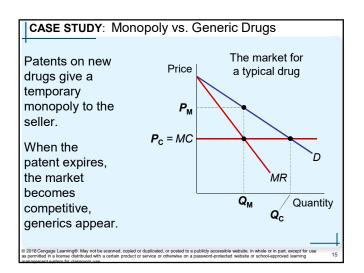


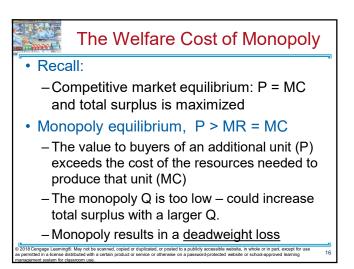
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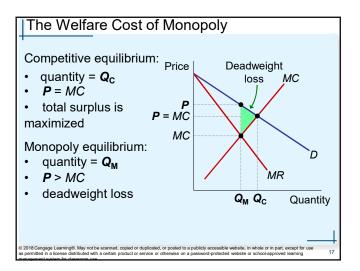






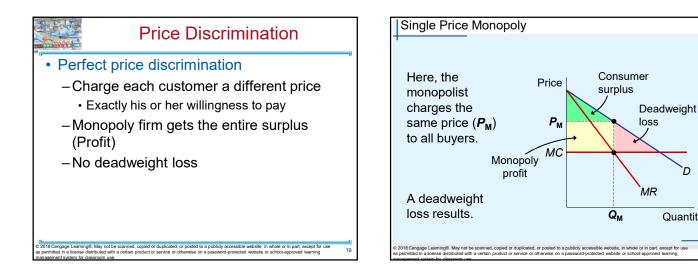


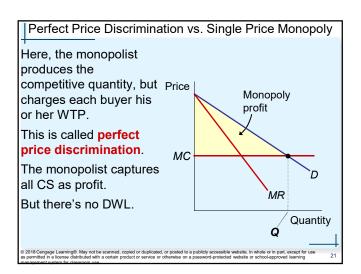




	Price Discrimination
Price of	liscrimination:
	the same good at different prices to rent buyers
highe	n can increase profit by charging a er price to buyers with higher gness to pay
•	uires the ability to separate customers rding to their willingness to pay
-Can	raise economic welfare
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Quantity







# **Examples of Price Discrimination**

#### Movie tickets

- -Discounts for seniors, students, and people who can attend during weekday afternoons.
  - Lower WTP than people who pay full price on Friday night
- Airline prices
  - Discounts for Saturday-night stayovers
    - Business travelers (higher WTP) vs. more price-sensitive leisure travelers

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# **Examples of Price Discrimination** Discount coupons -People who have time to clip and organize coupons are more likely to have lower income and lower WTP than others Need-based financial aid -Low income families have lower WTP for their children's college education -Schools price-discriminate by offering need-based aid to low income families 2018 Cengage Learning®. May not be scanned, copied or duplicated, or posted to a publicly accessible website, in whole or in part, except for use is permitted in a license distributed with a certain product or service or otherwise on a password-protected website or school-approved learning

# Examples of Price Discrimination

- · Quantity discounts
  - A buyer's WTP often declines with additional units, so firms charge less per unit for large quantities than small ones.
    - Example: A movie theater charges NT\$160 for a small popcorn and NT\$200 for a large one that's twice as big

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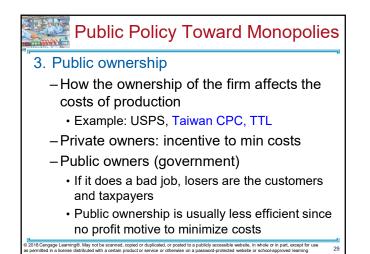
## Public Policy Toward Monopolies

- 1. Increasing competition with antitrust laws
  - Sherman Antitrust Act, 1890

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- -Clayton Antitrust Act, 1914
- -Prevent mergers
- -Break up companies
- Prevent companies from coordinating their activities to make markets less competitive

ASK THE EXPERTS **Public Policy Toward Monopolies** Airline Mergers 2. Regulation *"If regulators had not approved mergers in the* -Regulate the behavior of monopolists past decade between major networked · Set the monopolists' price airlines, travelers would be better off today." -Common in case of natural monopolies • MC < ATC at all Q What do economists sav? Marginal-cost pricing would result in losses 26% disagree --Regulator might subsidize the monopolist 45% uncertain or set P = ATC for zero economic profit 29% agree opied or duplicated, or posted to a publicly a ct or service or otherwise on a password-pro



# Public Policy Toward Monopolies A. Do nothing Some economists argue that it is often best for the gov't not to try to remedy the inefficiencies of monopoly pricing Determining the proper role of the gov't in the economy requires judgments about politics as well as economics 5. Auction Off the Market (Harold Demsetz) Can use revenue to subsidize consumers Pigovian Subsidy: Correct for DWL

#### The Prevalence of Monopoly

• Pure monopoly – rare in the real world

- Many firms have market power, due to:
  - -Selling a unique variety of a product
  - Having a large market share and few significant competitors
- In many such cases, most of the results from this chapter apply, including:
  - -Markup of price over marginal cost
  - Deadweight loss

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#### Summary

- A monopoly is a firm that is the sole seller in its market.
  - A monopoly arises when a single firm owns a key resource, when the government gives a firm the exclusive right to produce a good, or when a single firm can supply the entire market at a lower cost than many firms could.
  - Faces a downward-sloping demand curve for its product.

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#### Summary

- Monopoly increases production by 1 unit
  - Causes the price of its good to fall, which reduces the amount of revenue earned on all units produced.
  - Marginal revenue is always below the price
- A monopoly firm maximizes profit by producing the quantity at which marginal revenue equals marginal cost.

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 Sets the price at which that quantity is demanded. P > MR, so P > MC

#### Summary

- A monopolist's profit-maximizing level of output is below the level that maximizes the sum of consumer and producer surplus.
  - Causes deadweight losses
- A monopolist can often increase profits by charging different prices for the same good based on a buyer's willingness to pay.
  - Price discrimination can raise economic welfare
  - Perfect price discrimination, the deadweight loss of monopoly is completely eliminated

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#### Summary

- Policymakers can respond to the inefficiency of monopoly behavior in four ways
  - Use antitrust laws to try to make the industry more competitive
  - Regulate the prices that the monopoly charges
  - Turn the monopolist into a government-run enterprise
  - Can do nothing at all
- Or, just auction off the market. (Demsetz, 1968)

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#### Chapter 15: Monopoly

- MR=MC to maximize profit (still true!)
- But, P > MR (D downward sloping)
- Welfare Cost of a Monopoly:
  - Profits (unfair?) vs. DWL (efficiency loss!)
- Cures? Do nothing?
   Auction off the market!
- Homework: Mankiw, Ch.15, Problem 5-11

# Challenge Questions (Past Finals)

- ▶ 2007 Part 1
- 2008 Essay D 2012 - Part III
- 2009 Essay A
  2018 Essay B4-5
- True or False. Monopolists can achieve any level of profit they desire because they have unlimited market power.
- True or False. Heavy competition among firms for a limited number of customers leads to such devices as discounts for students and senior citizens.
   9/11/25 Monopoly Joseph Tao-yi V