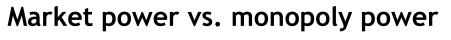


# **Monopolization elements**



(1) monopoly power in a relevant market

- 1. What's a relevant market?
  - a) product market
  - b) geographic market
- 2. What constitutes monopoly power in that market?
- (2) anticompetitive conduct

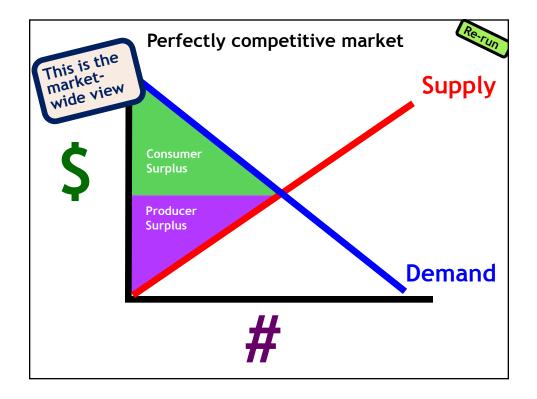


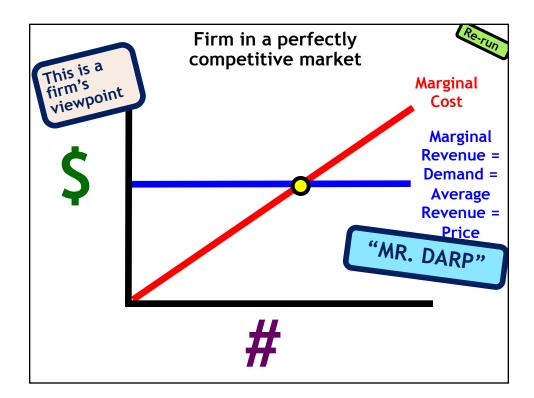
Market power is "the ability to raise prices above those that would be charged in a competitive market." NCAA v. OU (U.S. 1984)

• In other words, there's at least some market power whenever it's not a "MR. DARP" situation, where the seller faces a perfectly elastic demand curve.

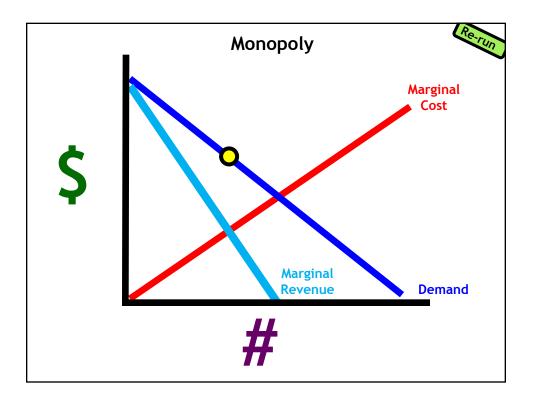
**Monopoly power** is "the power to control prices or exclude competition." *Cellophane Case* (U.S. 1956)

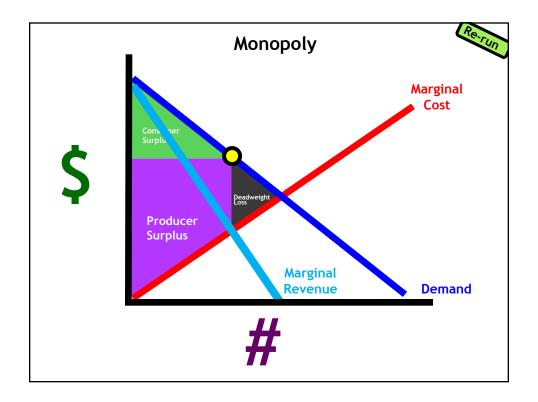
• In other words, monopoly power is more power than mere market power. But how much more? It's a matter of degree.

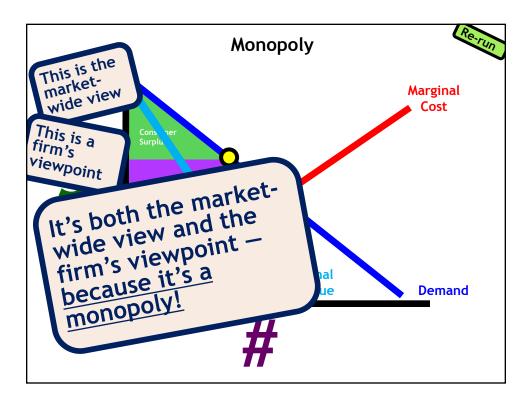


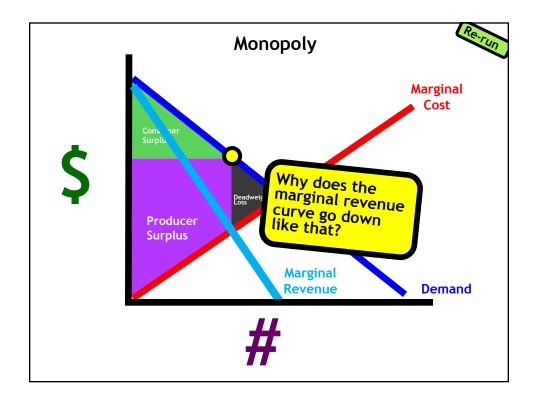


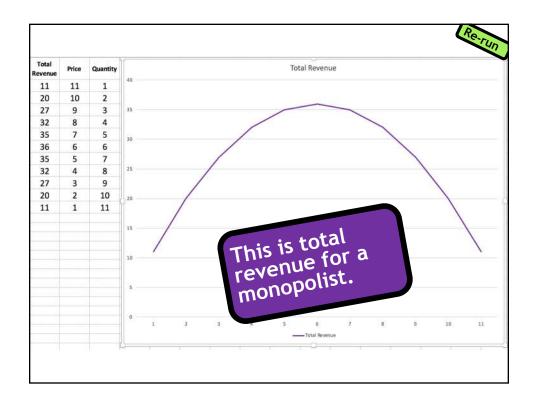


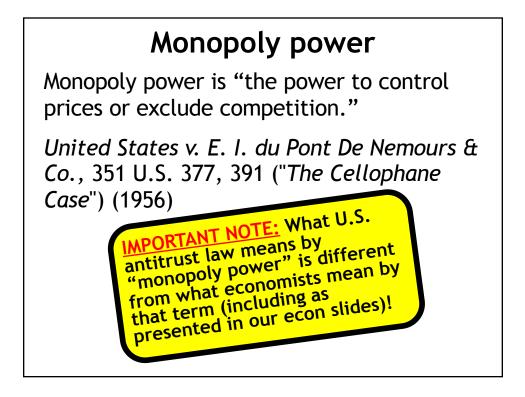


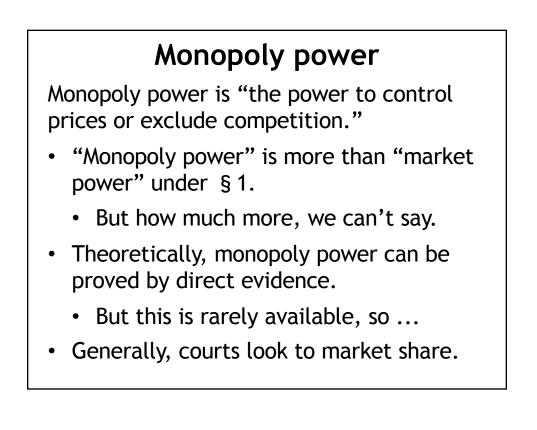












# Monopoly power

Monopoly power is "the power to control prices or exclude competition."

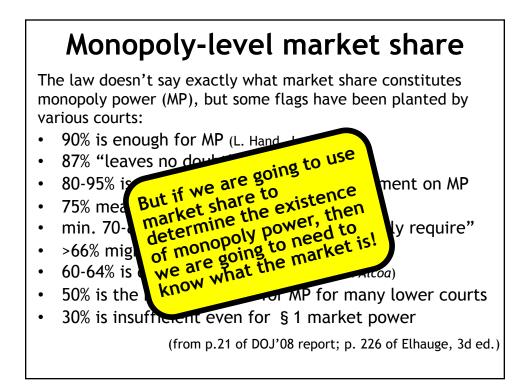
- "Monopoly power" is more than "market power" under § 1.
  - But how much more, we can't say.
- Theoretically, monopoly power can be proved by direct evidence.
  - But this is rarely available, so ...
- Generally, courts look to <u>market share</u>.

#### Monopoly-level market share

The law doesn't say exactly what market share constitutes monopoly power (MP), but some flags have been planted by various courts:

- 90% is enough for MP (L. Hand, J., in Alcoa)
- 87% "leaves no doubt" that MP exists
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- 75% means MP "may be assumed"
- min. 70-80% is what lower courts "generally require"
- >66% might be MP
- 60-64% is doubtful for MP (L. Hand, J., in Alcoa)
- 50% is the bare minimum for MP for many lower courts
- 30% is insufficient even for §1 market power

(from p.21 of DOJ'08 report; p. 226 of Elhauge, 3d ed.)



# **Monopolization elements**

- (1) monopoly power in a relevant market
  - 1. What's a relevant market?
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# **Monopolization elements**

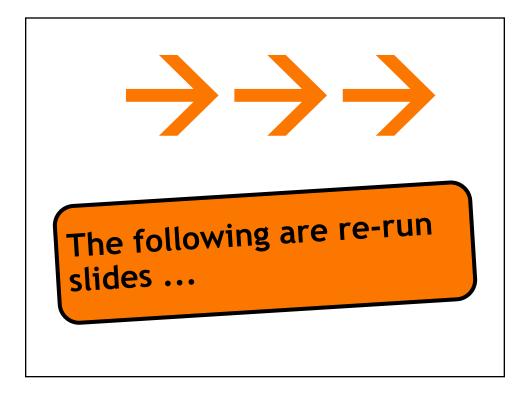
(1) monopoly power in a relevant market

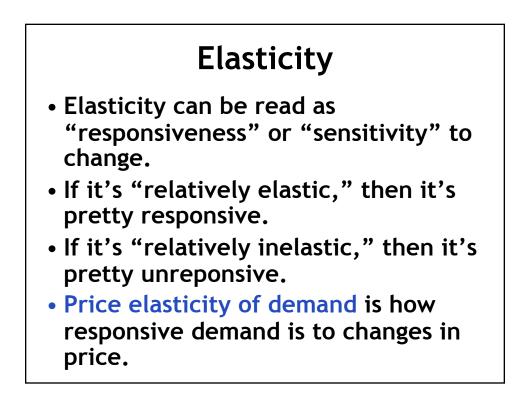
- 1. What's a relevant market?
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### Product market definition

"In considering what is the relevant market for determining the control of price and competition, no more definite rule can be declared than that commodities <u>reasonably</u> <u>interchangeable by consumers</u> for the same purposes make up that 'part of the trade or commerce', monopolization of which may be illegal."

U.S. v. E. I. du Pont de Nemours & Co., 351 U.S. 377, 395 ("The Cellophane Case") (1956)



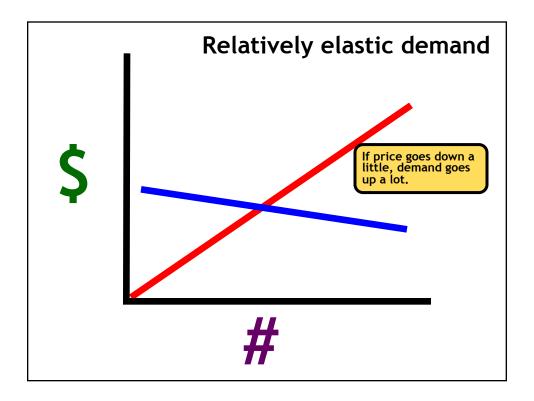


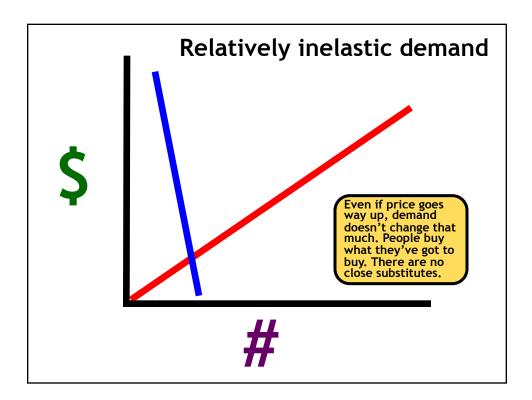
# **Substitution Effect**

- The more prices go up, the more consumers will tend to avoid those goods by purchasing substitutes.
- The closer the substitutes, the greater the tendency for prices to make people jump ship and buy the substitutes instead.



- Price elasticity of demand is how responsive demand is to changes in price, so ...
- If consumers will buy almost as much when the price goes up, that means demand doesn't change much with price, which is a situation where price elasticity of demand is relatively inelastic.
  - Examples: gasoline, insulin
- If consumers will rapidly cut how much they buy when the price goes up, that means demand changes a lot with price, which is a situation where price elasticity of demand is relatively elastic.
  - Examples: particular kinds of food



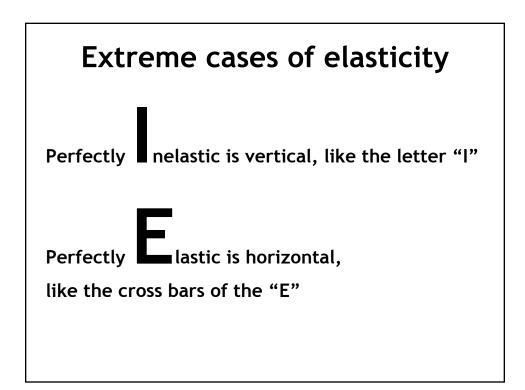


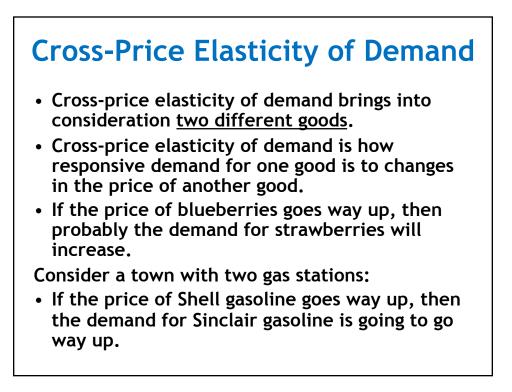
# Tending toward elasticity

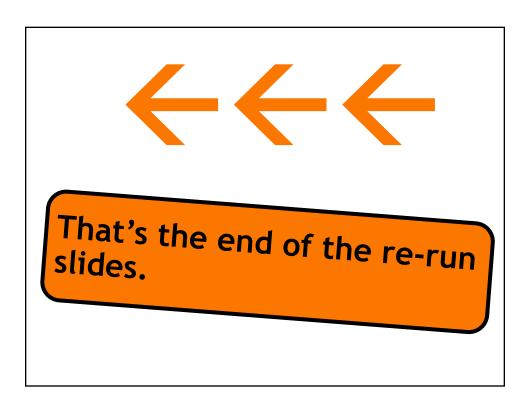
- The goods are luxuries.
- Close substitutes exist.
- The time horizon is long.

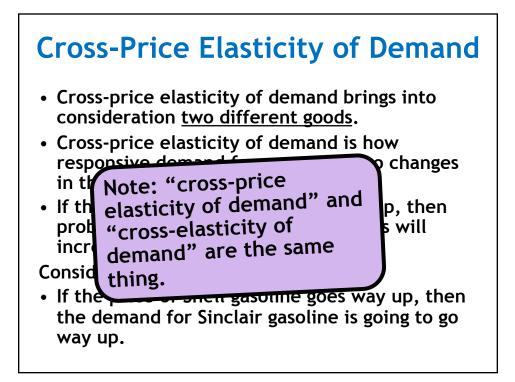
# Tending toward inelasticity

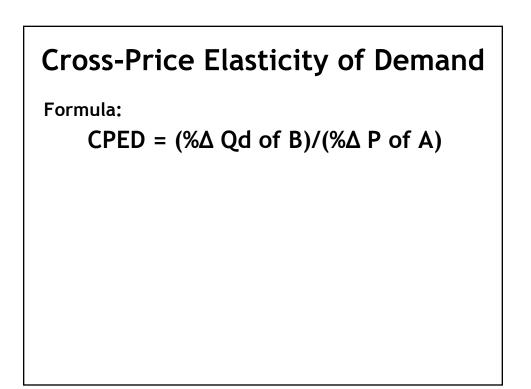
- The goods are necessities.
- Nothing's easily substitutable.
- The time horizon is short.











# **Cross-Price Elasticity of Demand**

Formula:

CPED =  $(\%\Delta \text{ Qd of B})/(\%\Delta \text{ P of A})$ 

CPED = cross-price elasticity of demand

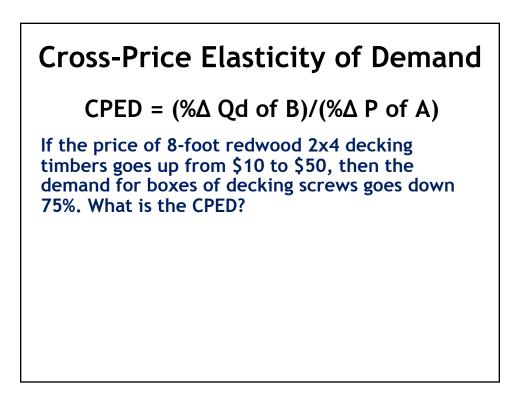
 $\%\Delta$  = percent change

Qd = quantity demanded

**B** = product **B** 

A = product A

P = price



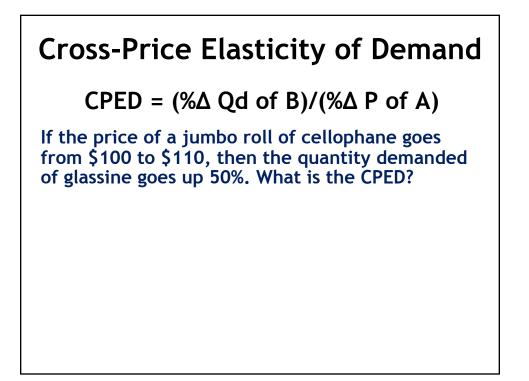
### **Cross-Price Elasticity of Demand**

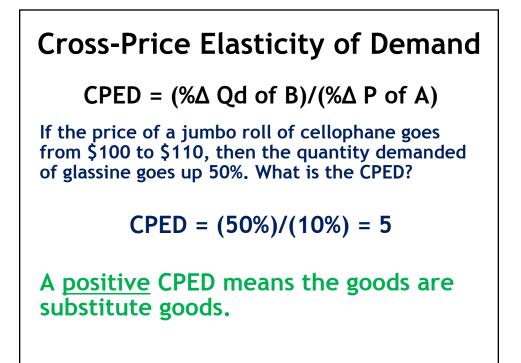
CPED =  $(\%\Delta \text{ Qd of B})/(\%\Delta \text{ P of A})$ 

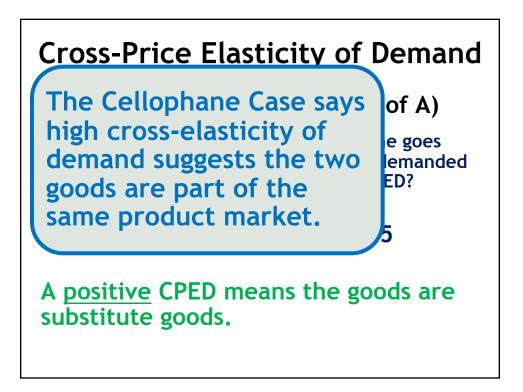
If the price of 8-foot redwood 2x4 decking timbers goes up from \$10 to \$50, then the demand for boxes of decking screws goes down 75%. What is the CPED?

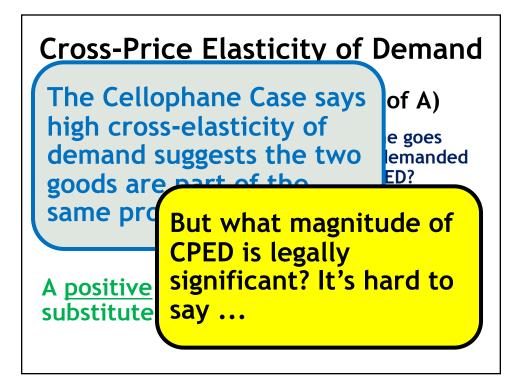
CPED = (-75%)/(400%) = -0.18

A <u>negative</u> CPED means the goods are complementary goods.





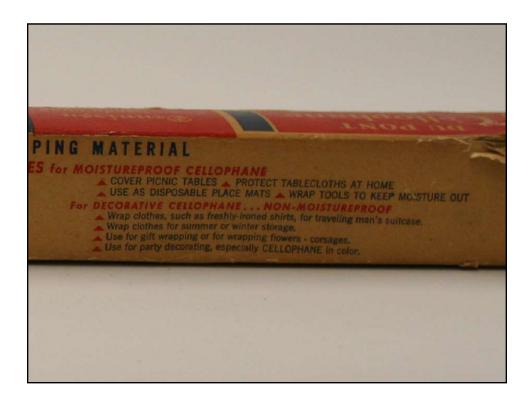


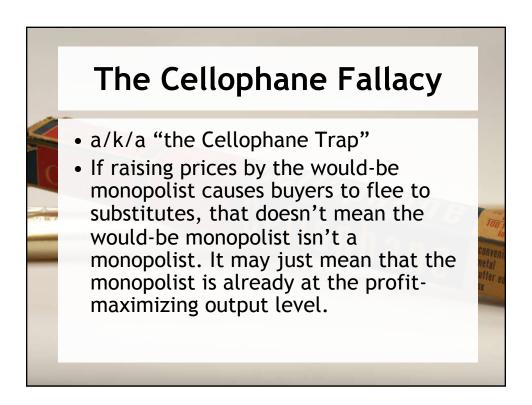


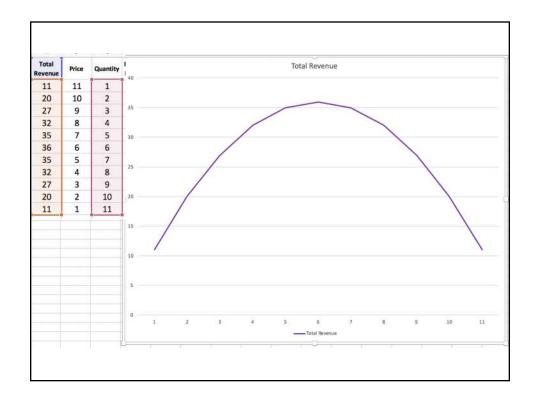


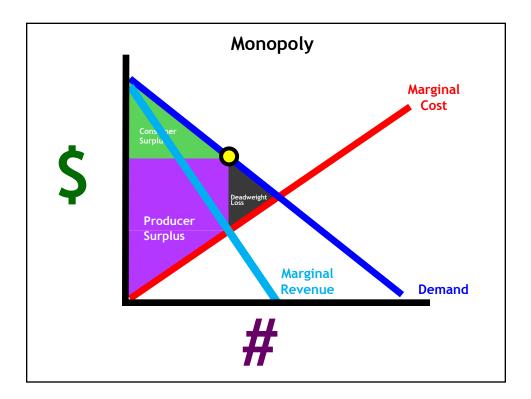


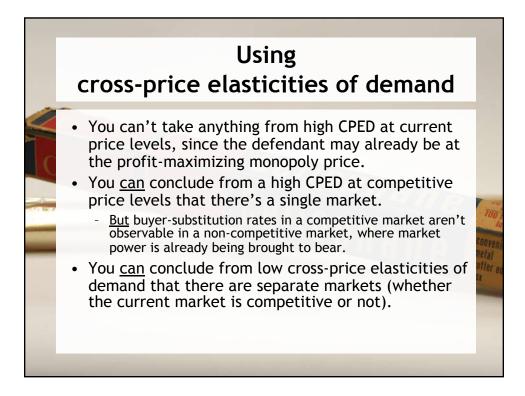


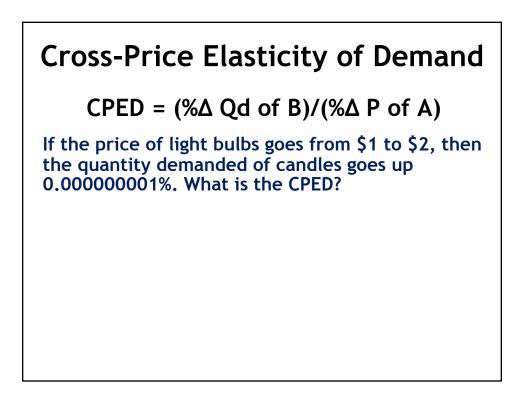












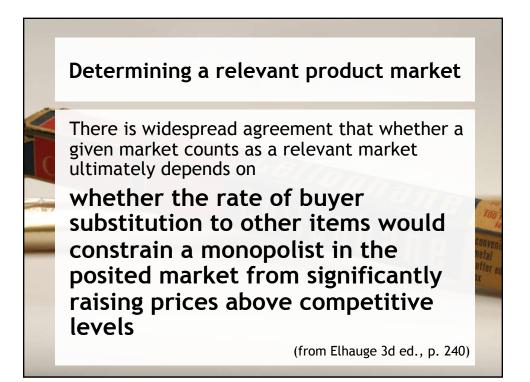
### **Cross-Price Elasticity of Demand**

CPED =  $(\%\Delta Qd of B)/(\%\Delta P of A)$ 

If the price of light bulbs goes from \$1 to \$2, then the quantity demanded of candles goes up 0.00000001%. What is the CPED?

#### Let's just agree that the CPED is "very low."

This low CPED implies that light bulbs and candles are not substitute goods and therefore should not be considered to be in the same market. (This implication applies whether the current market is competitive or not.)



#### FTC/DOJ merger guidelines' Hypothetical Monopolist Test

A "relevant product market" is one where, if one firm was the only seller of that product, they would be able to impose a small but significant and nontransitory increase in price (SSNIP). "Small but significant" is quantified at at least 5%. *Consider*:

- All paper manufactured from trees felled on a Tuesday in Klamath County, Oregon.
- All wine manufactured from grapes grown in Napa County, California.
- All blueberries.

We'll just guess based on our intuition about consumer preferences ...

Consider:

- All paper manufactured from trees felled on a Tuesday in Klamath County, Oregon.
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Consider:

- All paper manufactured from trees felled on a Tuesday in Klamath County, Oregon.
  - NO. Seems like this would fail the SSNIP test. We can guess that a hypothetical monopolist over this paper would not be able to impose a 5% non-transitory price increase. THUS, this is not a relevant market.
- All wine manufactured from grapes grown in Napa County, California.
  - MAYBE. Seems like this could pass the SSNIP test. We can guess that enough consumers might care about getting Napa wine that a hypothetical monopolist over this wine would be able to impose a 5% non-transitory price increase. THUS, this seems like it could be a relevant market.
- All blueberries.
  - YES. We can guess that this would definitely pass the SSNIP test. One firm monopolizing all blueberries would be able to jack up the price 5% for quite some time and sustain that profitably. THUS, this would be a relevant market.

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# Geographic market

A geographical market is the geographical area in which customers are willing to go to find substitutes in response to an increase in price and where suppliers are willing to come in response to an increase in price.

### Geographic market

Consider:

- Every gas station within a three block radius of the law school raises prices by 5% over rivals outside that zone.
- Every gas station in Norman raises prices by 5% over rivals outside the city.
- Every gas station in Oklahoma raises prices by 5% over rivals outside the state.

# Geographic market

Consider:

- All carpet cleaning services in Norman raise their prices by 5% over rivals outside the city.
- All carpet cleaning services in the Oklahoma City metro area raise their prices by 5% over rivals outside the metro.
- All carpet cleaning services in Oklahoma raise their prices by 5% over rivals outside the state.

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# Monopoly power



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### Monopoly power

It's mostly about market share ...

But also relevant are:

- barriers to entry
- future capacity constraints
- changing consumer demand
- demand elasticity

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- future capacity constraints
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#### Barriers to entry

Barriers to entry are things that stop market entrants. If there are no barriers to entry, then it is easy for competitors to spring up.

#### Barriers to entry

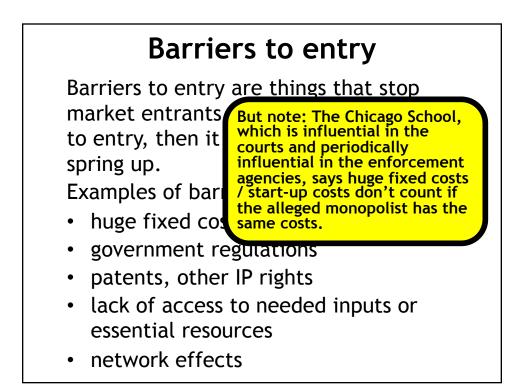
Key point: Even if a firm has 100% market share, there will be no monopoly power if there are no barriers to entry - meaning it is very easy for competitors to jump into the market.

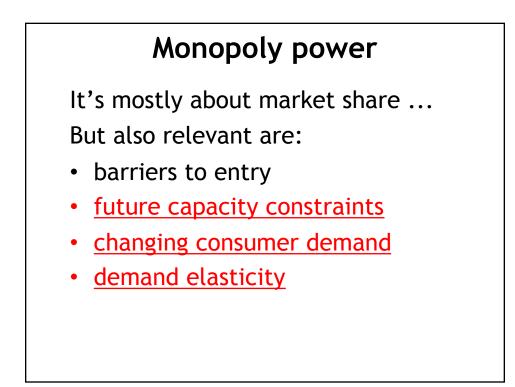
#### **Barriers to entry**

Barriers to entry are things that stop market entrants. If there are no barriers to entry, then it is easy for competitors to spring up.

Examples of barriers to entry:

- huge fixed costs, start-up costs
- government regulations
- patents, other IP rights
- lack of access to needed inputs or essential resources
- network effects





#### Monopoly power: future capacity constraints, changing consumer demand, demand elasticity

#### future capacity constraints

- If an alleged monopolist won't be able to produce in the future, then it may have no monopoly power, such as a coal company that is out of coal reserves.
  changing consumer demand
- If consumers no longer want the alleged monopolist's product going forward, than past dominant market share may not be probative.

#### demand elasticity

• Even with overwhelming market share, if consumers can very easily do without the product, then an alleged monopolist may not have monopoly power.

#### Monopolization analysis to-do list

(1) monopoly power in a relevant market

- 1. figure out a relevant product market
- 2. figure out a relevant geographical market
- 3. look at the market share
- 4. consider barriers to entry
- 5. consider whether future capacity constraints, changing consumer demand, or demand elasticity might let an alleged monopolist off the hook

#### (2) anticompetitive conduct

[for this analysis, you'll use what we cover next ... ]