



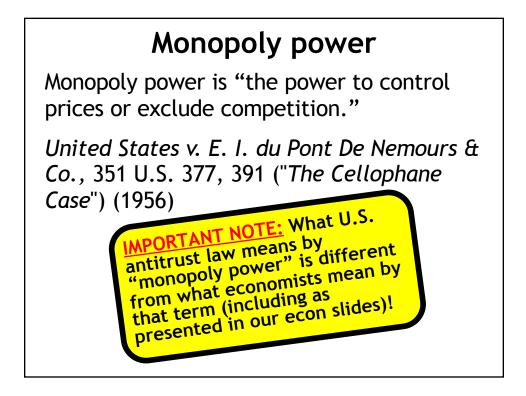
(1) monopoly power in a relevant market

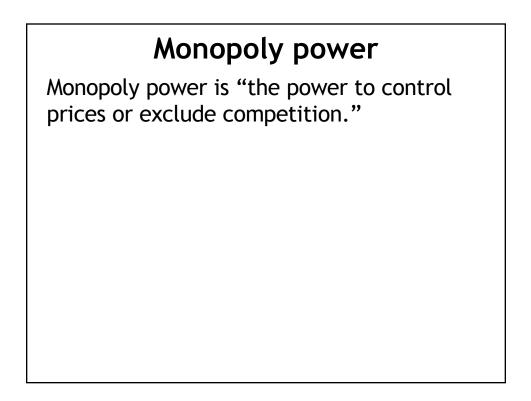
- 1. What's a relevant market?
 - a) product market
 - b) geographic market
- 2. What constitutes monopoly power in that market?
- (2) exclusionary conduct

Monopoly power

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

United States v. E. I. du Pont De Nemours & Co., 351 U.S. 377, 391 ("The Cellophane Case") (1956)





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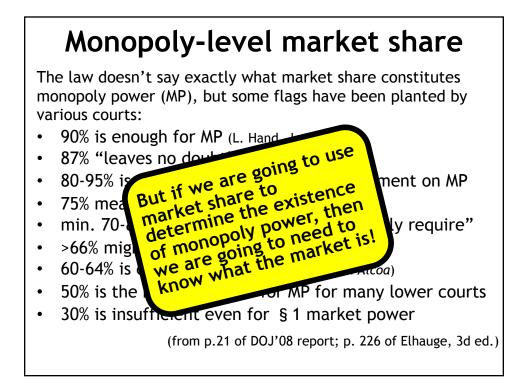
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Monopoly-level market share

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- 90% is enough for MP (L. Hand, J., in Alcoa)
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(from p.21 of DOJ'08 report; p. 226 of Elhauge, 3d ed.)



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Product market definition

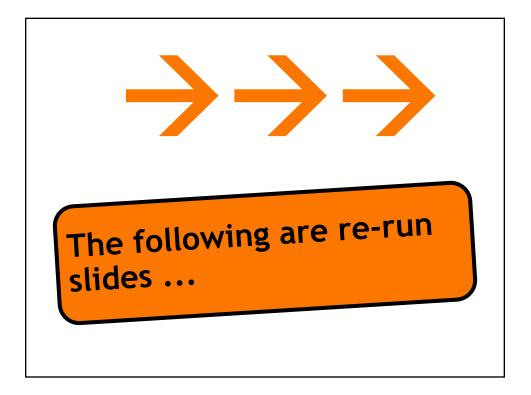
"In considering what is the relevant market for determining the control of price and competition, no more definite rule can be declared than that commodities reasonably interchangeable by consumers for the same purposes make up that 'part of the trade or commerce', monopolization of which may be illegal."

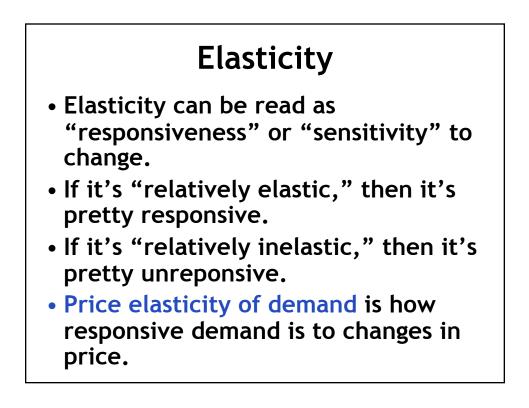
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Product market definition

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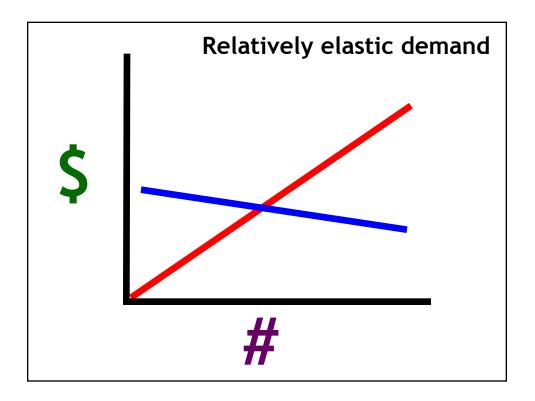


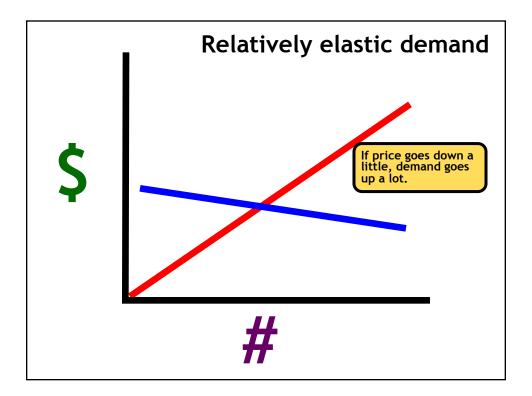
Substitution Effect

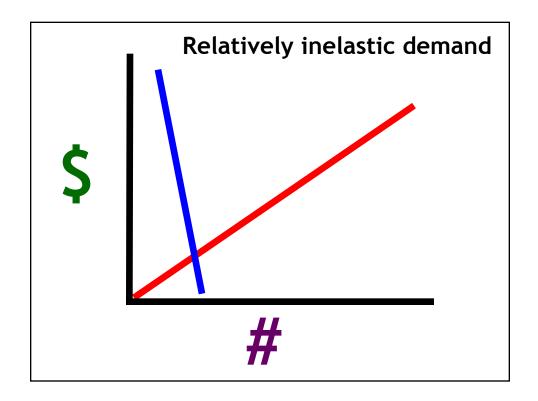
- The more prices go up, the more consumers will tend to avoid those goods by purchasing substitutes.
- The closer the substitutes, the greater the tendency for prices to make people jump ship and buy the substitutes instead.

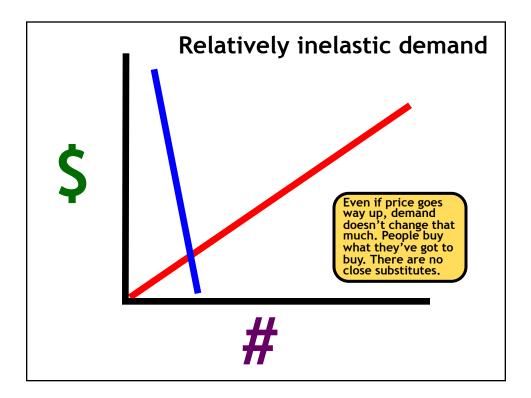
Price Elasticity of Demand

- 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







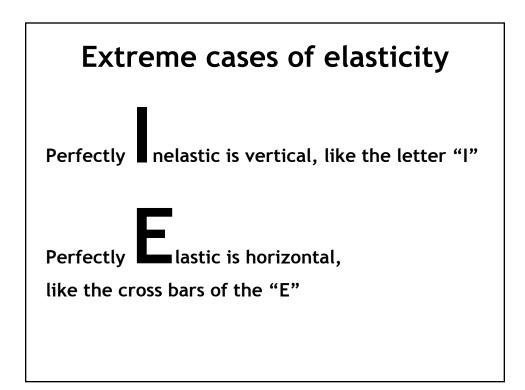


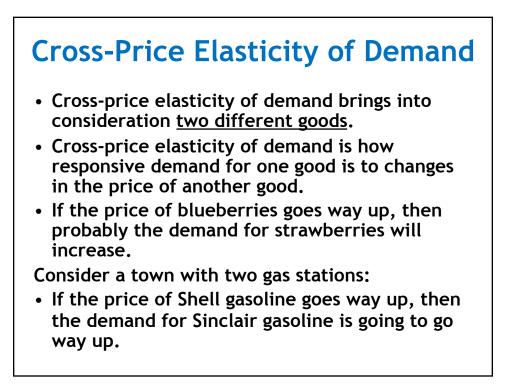
Tending toward elasticity

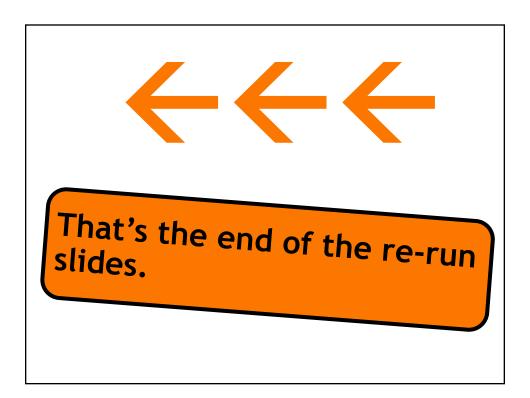
- The goods are luxuries.
- Close substitutes exist.
- The time horizon is long.

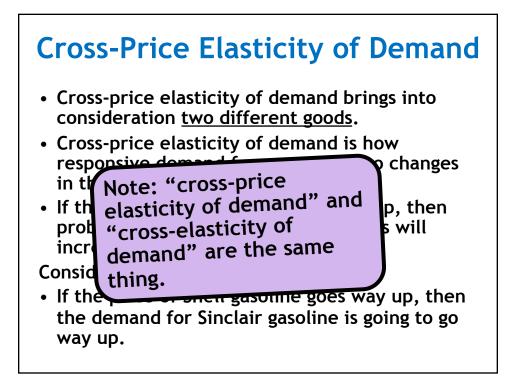
Tending toward inelasticity

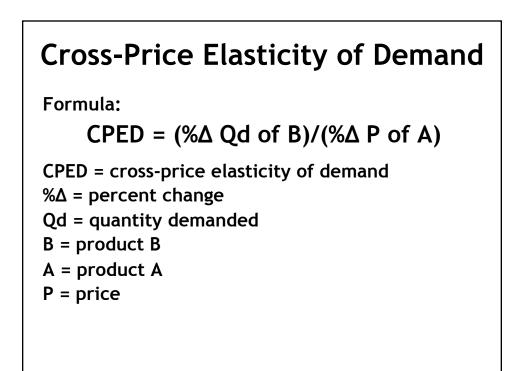
- The goods are necessities.
- Nothing's easily substitutable.
- The time horizon is short.











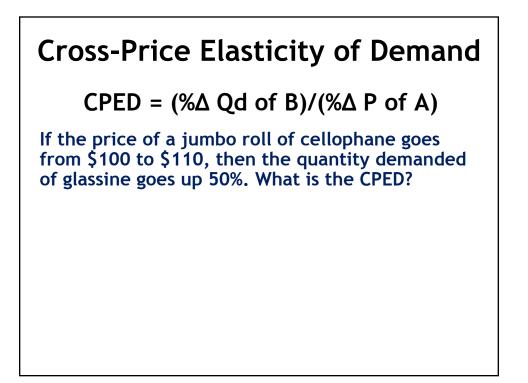
Cross-Price Elasticity of Demand

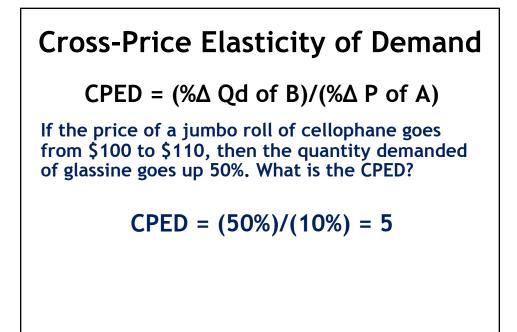
CPED = $(\%\Delta \text{ Qd of B})/(\%\Delta \text{ P of A})$

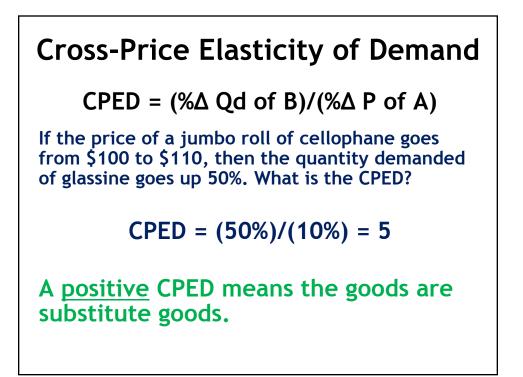
If the price of 8-foot redwood 2x4 decking timbers goes up from \$10 to \$50, then the demand for boxes of decking screws goes down 75%. What is the CPED?

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

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



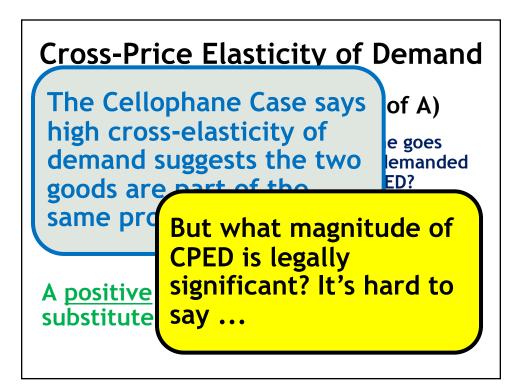






The Cellophane Case says high cross-elasticity of demand suggests the two goods are part of the same product market.

A <u>positive</u> CPED means the goods are substitute goods.



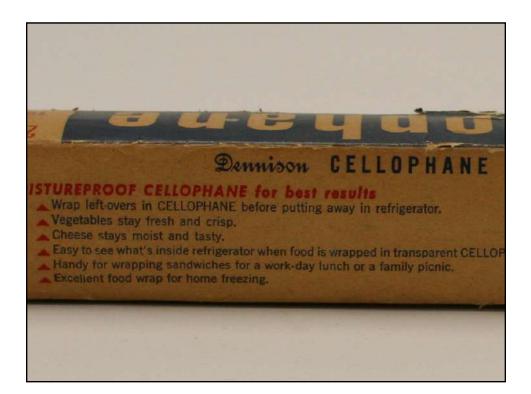


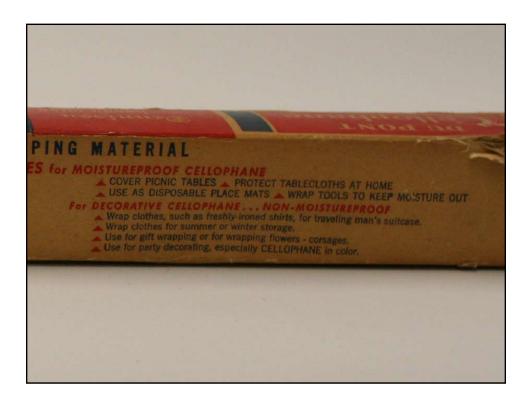




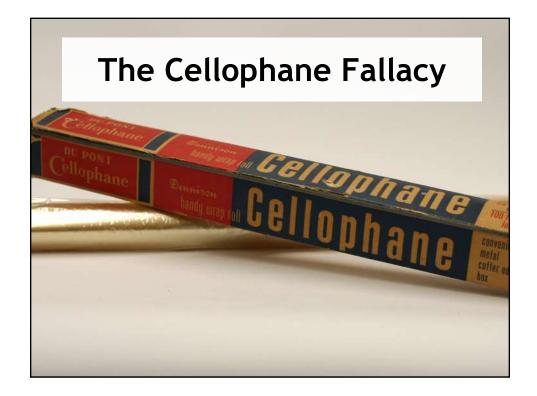


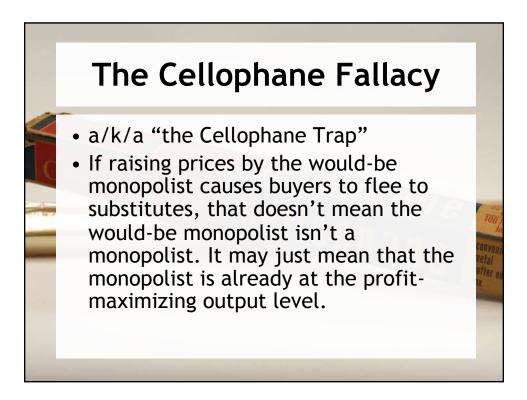


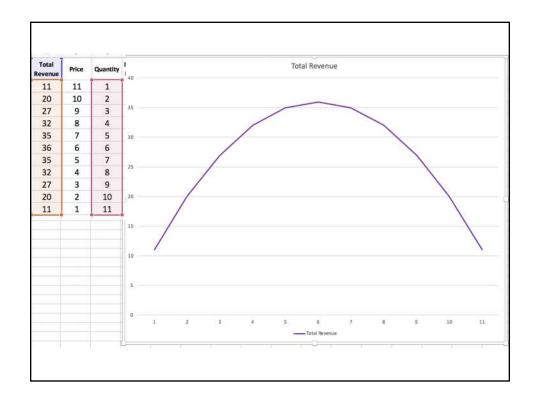


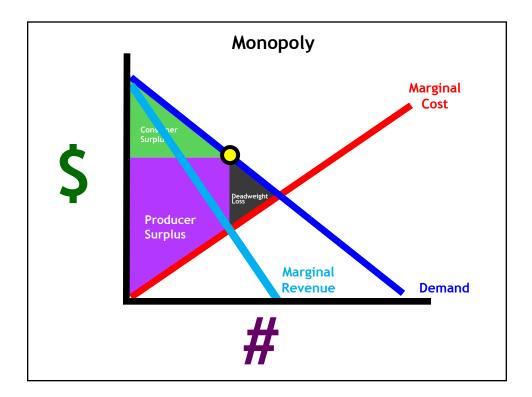


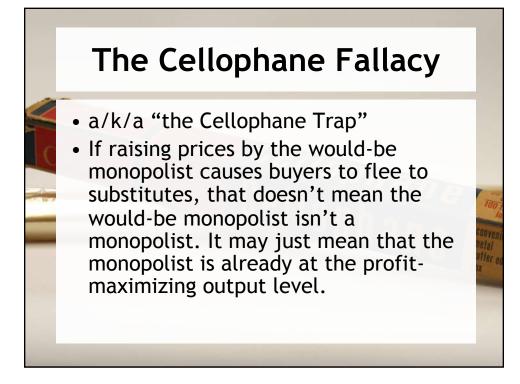


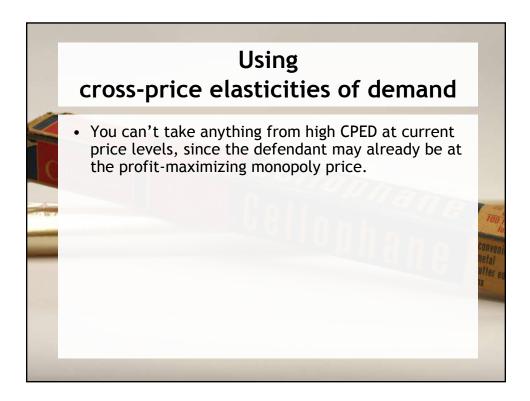


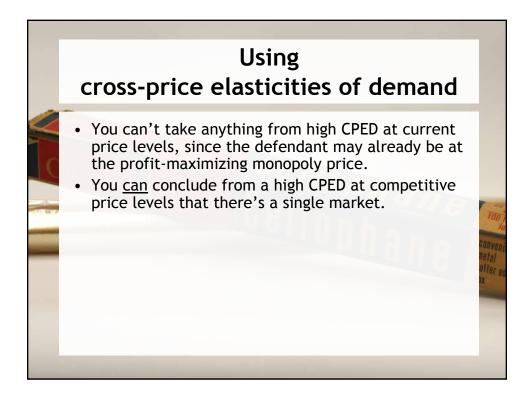


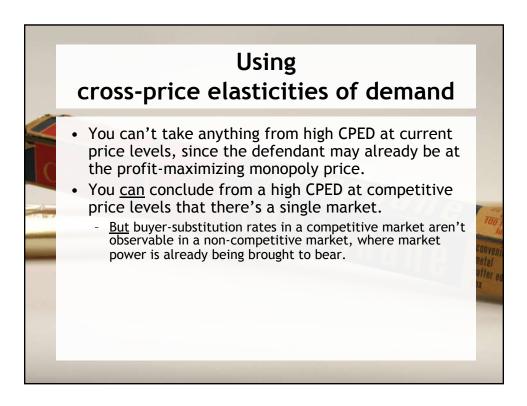


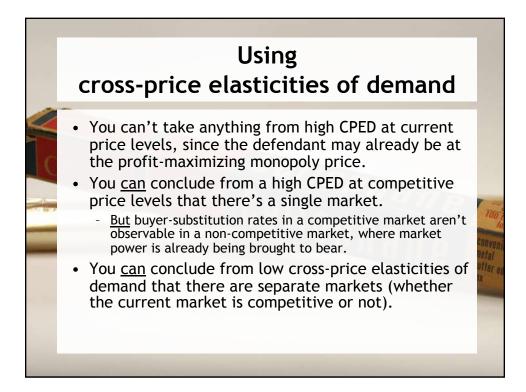


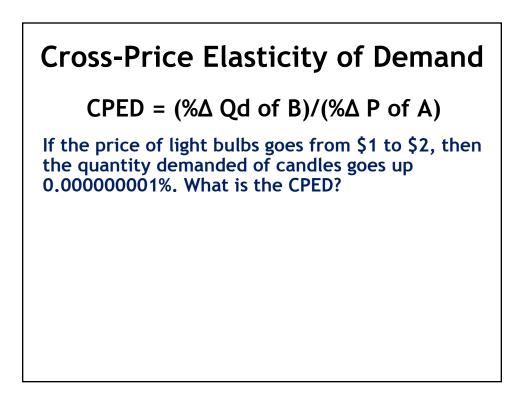


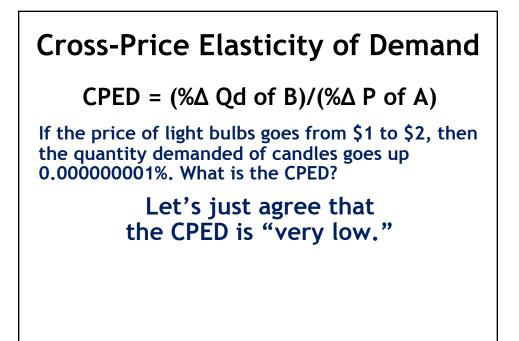












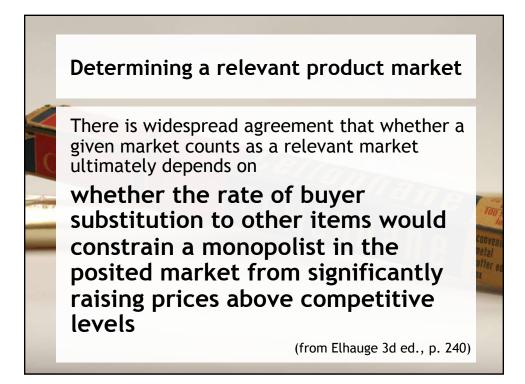
Cross-Price Elasticity of Demand

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 never exposed to chemical herbicides and insecticides and therefore certifiable as "organic."

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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.

Geographic market

Consider:

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

Geographic market

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- 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.

Geographic market

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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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Barriers to entry

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Barriers to entry

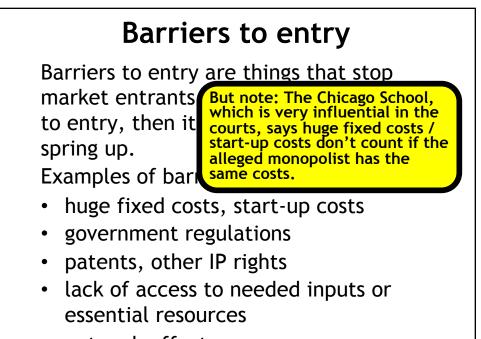
Key point: Even if a firm has 100% market share, there will be no monopoly power if there are no barriers to entry - meaning it is very easy for competitors to jump into the market.

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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



network effects



It's mostly about market share ...

But also relevant are:

- barriers to entry
- <u>future capacity constraints</u>
- changing consumer demand
- demand elasticity

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

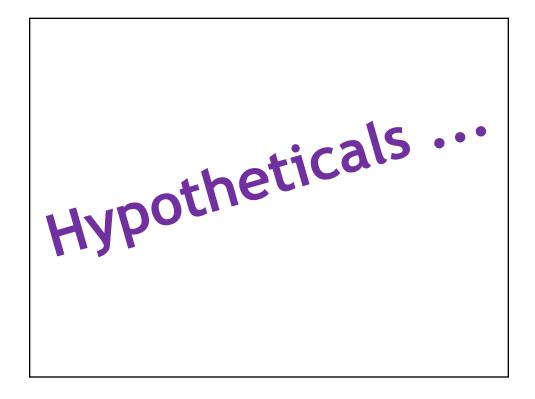
 Even with overwhelming market share, if consumers can very easily do without the product, then an alleged monopolist may not have monopoly power.

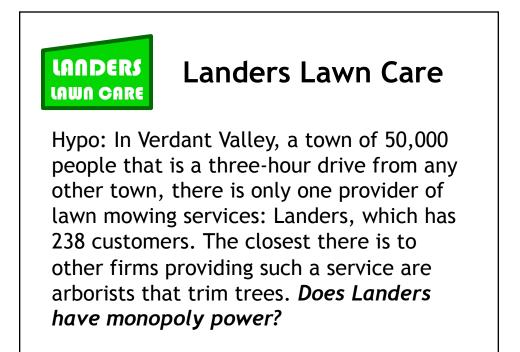
Monopolization analysis to-do list

(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) exclusionary conduct

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





Landers Lawn Care

Does Landers have monopoly power? Almost certainly not. The relevant product market appears to be lawn mowing services. Arborists are a separate market, because tree trimming is not reasonably substitutable for lawn mowing. The relevant geographical market appears to be Verdant Valley, because you can't take your lawn out of town to be mowed, and probably no one is going to drive six hours round-trip to mow your lawn. The market share in this market is 100%. That's more than sufficient for monopoly power just in terms of market share, but there are essentially zero barriers to entry. Anyone can get a lawn mower and start mowing people's lawns.



LANDERS

Gundattan Media Group

Hypo: Measured by ad revenues, Gundattan Media Group owns 90% of the radio station market in Grand Gables, 10% of billboards, and 46% of radio + billboards. Billboard sites are subject to permits and radio spectrum is allocated by the FCC. Both are maxed out in Grand Gables. When radio advertising goes up 50% in price, demand for billboards goes up by 1%. Does Gundattan have monopoly power in a relevant market?



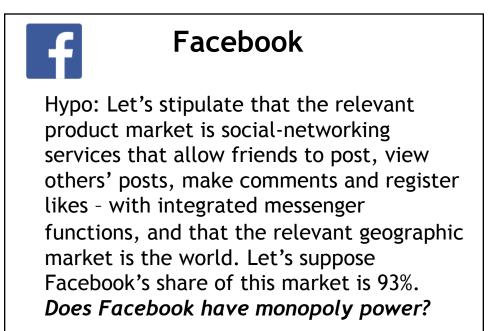
Gundattan Media Group

Does Gundattan have monopoly power in a relevant market?

 $CPED = (\% \Delta Qd of B) / (\% \Delta P of A)$ CPED = 1% / 50% = 0.02

This seems pretty low, suggesting radio is a relevant market by itself. And 90% is monopoly territory market share. Plus barriers to entry seem insurmountable.

Yes, GMG seems to have monopoly power.



(This is for discussion in class ... There's no pre-prepared answer slide.)

Vayatom Hypo: Suppose Vayatom builds nuclear power plants for electric utilities, and suppose it costs \$4 billion to build a staff of engineers and to design and test a new nuclear reactor and plant facility that can be marketed. Vayatom has: 85% of the new nuclear plant market worldwide 100% of the new nuclear plant market in the USA 7% of the new power plant market in the world 1% of the new power plant market in the USA *Does Vayatom have monopoly power*?

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