















Supply curve in monopoly ()	boly
A supply curve shows the quantity a seller chooses to supply for any given price	
However, a monopolist thinks and acts in the <i>reverse</i> way what price to set for the profit maximizing quantity	
An <i>increase in demand</i> may cause the monopolist to supply a <i>higher quantity</i> at a <i>higher</i> price, OR at the <i>same</i> price, OR at a <i>lower</i> price depending on where <i>MR</i> = <i>MC</i> occurs	
★ In monopoly, price and quantity supplied do NOT correspond uniquely thus, we cannot define a supply curve for firms that are not price takers.	
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\star There is a much **simpler expression**, mathematically **equivalent** to MR = MC:

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$$p = MC \cdot \left[1 + \frac{-1}{1 + \varepsilon_d}\right] \xrightarrow{\text{markup}}_{\text{as \% of MC}}$$

the seller maximizes profit when **MC** is marked up by $\frac{-1}{1+\epsilon_d}$

***** The markup **depends solely** on the ε_d

the lower the elasticity, the higher the markup

***** If, for example,
$$\varepsilon_d = -4.333$$

the **markup** is $\frac{-1}{1-4.333} = 30\%$



> Monopoly

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> Market powe Market power & Profit * Market power does NOT necessarily lead to high profit * If a brand has *low demand*, monopolization will not help * Market power is the difference between price and MC * Profit depends on *quantity* sold and the difference between *price* and *AC* * A firm may have *high market power* but *low profit* (or even losses) due to high average costs or low sales Cheaper prices More expensive Less convenient More convenient Store *elasticity* -11 Store elasticity, -6 Markup calculated to 10% • Markup at 20%. © 2019-23 Kosmas Marinakis, SMU 14

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Sources of market power 🌗

Market power for a brand *originates* in its *elasticity of demand*

- 1. A brand's elasticity is *positively* affected by the *elasticity of the product*
 - ▶ If the demand of *cars* becomes less elastic, *VW cars* will also become less elastic
- 2. A brand's elasticity is *negatively* affected by *entry* of new firms:
 - Consumers are offered more chances for *substituting* the product
- 3. A brand's elasticity is *negatively* affected by the *intensity of competition* among brands:
 - ▶ When firms compete *aggressively,* prices fall closer to *MC*
 - If firms agree to moderate competition and co-exist, prices may stay way above MC

> Market power

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How to create market power

1. Work on your product

innovate or *differentiate* so that consumers cannot *substitute it easily* with other products

2. Close the door behind you

create *barriers to entry* so that potential competitors will keep out of your profits

3. "Kill" the competition

apply strategies that can constrict the competition and *drive rivals out* of business

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> Market power



WARNING! •

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