



PERFECT
COMPETITION

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➤ We have studied how consumers make their optimal choice and how firms think about production and cost

➤ Now, we will examine how consumers and firms interact

➤ Let's start from an ideal environment of competition

➤ A market is perfectly competitive when 3 assumptions hold:

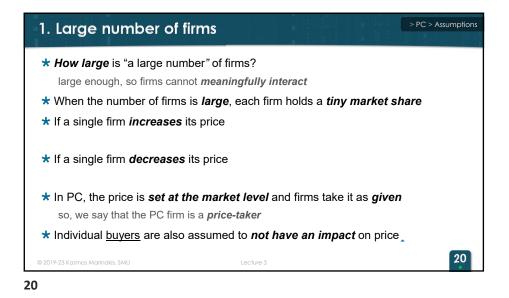
1. There exists a large number of sellers

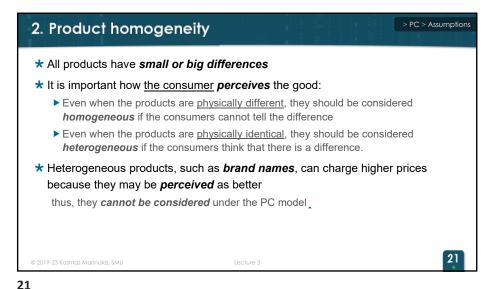
2. The product is homogeneous

3. There are no barriers for sellers and buyers to participate in the market.

➤ Let's examine these assumptions one by one

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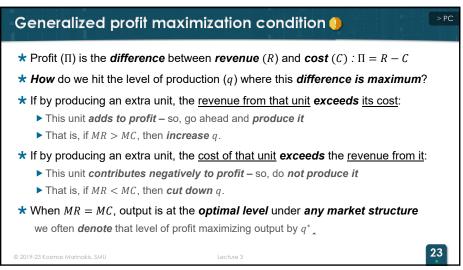


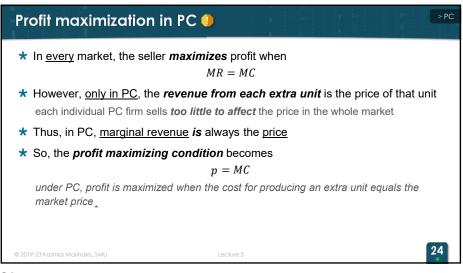
3. Free entry and exit

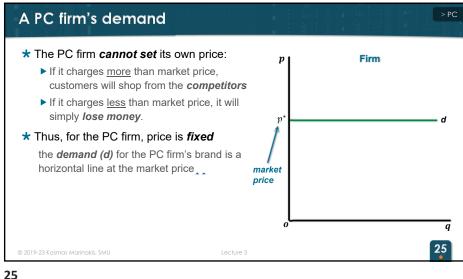
* In PC, market entry or exit must have no restrictions or barriers no one should be prohibited or prevented from becoming a seller

* This does not imply that a PC seller does not face fixed costs fixed costs can be considered a barrier only when they are high enough to prevent most potential sellers from entering the industry

* Markets that resemble a PC environment can be: stock markets, online marketplaces, farmers markets, hawker centers etc...



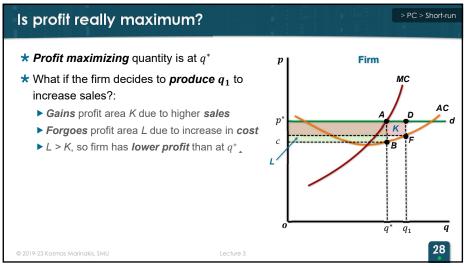


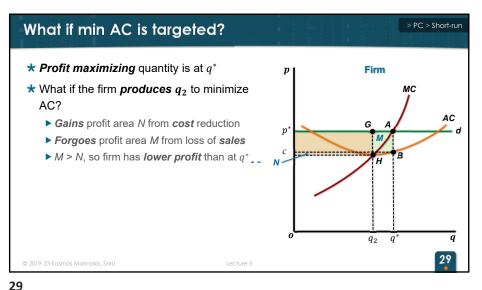


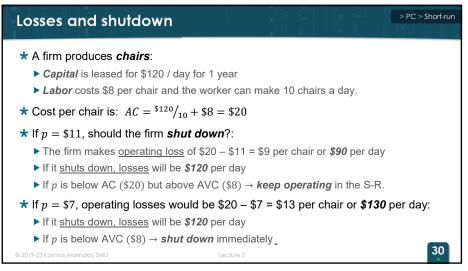


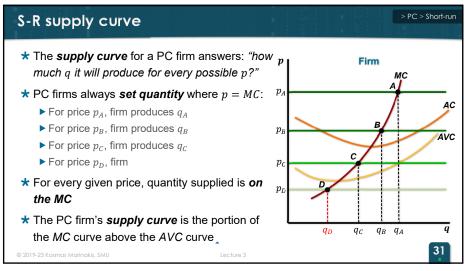
To maximize profit, the individual PC firm will produce the quantity (q) for which p = MC:

• Revenue per unit is p^* • Total revenue is area p^*Aq^*o • Cost per unit is c• Total cost is area cBq^*o • Total profit is p^*ABc • Total profit is p^*ABc





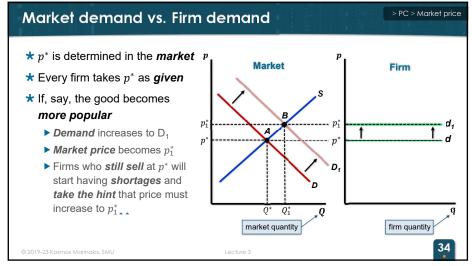




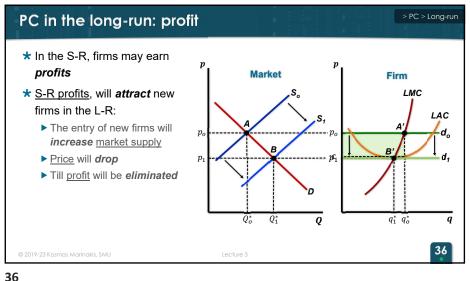
Market supply for the S-R > PC > Short-run * Market supply shows the output the entire market will MC₂ MC₃ MC₁ produce at every price (4+7+10 * Equals the *horizontal sum* of the supply curves of all firms in the market adding *quantities* for each price 4 5 6 7 8 21 32 © 2019-23 Kosmas Marinakis, SMU

> PC > Market price How does the market price emerge in PC? \star The price in PC results from the *interaction* of pMarket market demand and market supply Surplus * YET firms know their supply decisions but **may ignore** the position of the market demand p_1 had they **not ignored** D, they would **price** at p^* ***** If firms price at p_1 , production (p_1C) exceeds quantity demanded (p_1B) , firms will take this as a signal to lower the price Shortage ★ If firms price at p_2 , quantity demanded (p_2E) **exceeds** production (p_2F) , firms will take this as a **signal** to **raise the price** 33 © 2019-23 Kosmas Marinakis, SMU

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* In the S-R, firms may have losses

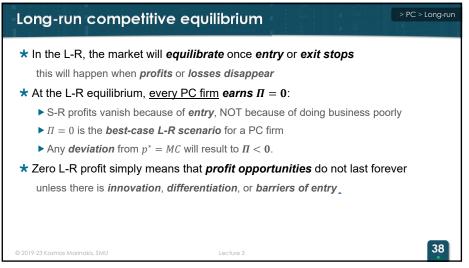
* In the S-R, firms may have losses

* S-R losses, will push some firms out in the L-R:

• The exit of firms will decrease market supply

• Price will go up

• Till losses are eliminated...



* A grab driver works 8 hours per day and invested \$200K for the vehicle:

If the annual salary for a chauffeur in this market is \$39K

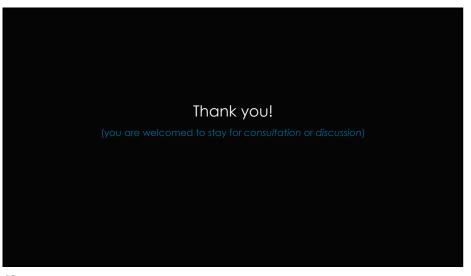
And \$200K in the bank would yield \$3K in interest annually.

Zero economic profit would NOT mean that he earns nothing it would mean that he earns exactly \$42K (equal to his total opportunity cost)

Positive profit would be whatever he earned above \$42K

If he earned below \$42K, he would be making economic losses

If = 0 means that you earn as much as at your next best alternative thus, you have no reason to exit.



WARNING!

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