



PERFECT
COMPETITION

* We have discussed how consumers choose optimally 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

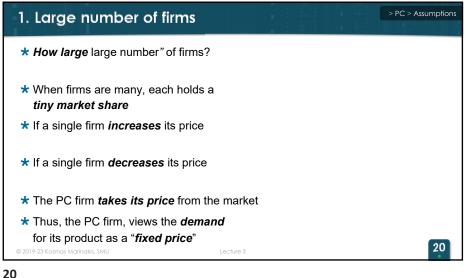
2. The product is homogeneous

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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Lecture 3



All products have small or big differences

* Physical differences among products do not matter, it matters what the consumer believes for each good:

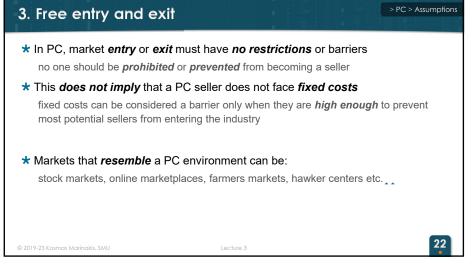
If consumers cannot tell the difference, the products are homogeneous

If consumers think that there is any meaningful difference, they are heterogeneous.

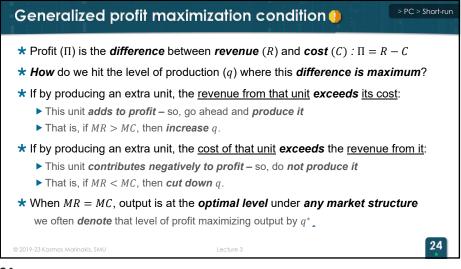
* Heterogeneous products, such as brand names, can charge higher prices because they may be perceived as better...

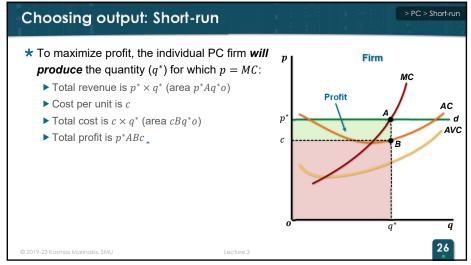
thus, they cannot be considered under the PC model.

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Losses & shutdown★ A firm produces *chairs*:

▶ *Capital* is leased for \$120 / day for 1 year

▶ *Labor* costs \$8 per chair and the worker can make 10 chairs a day.

★ Cost per chair is: $AC = \frac{\$120}{10} + \$8 = \$20$ ★ If p = \$11, should the firm *shut down*?:

▶ The firm makes operating loss of \$20 - \$11 = \$9 per chair or \$90 per day

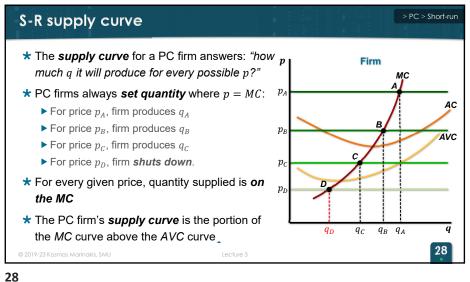
▶ If it shuts down, losses will be \$120 per day

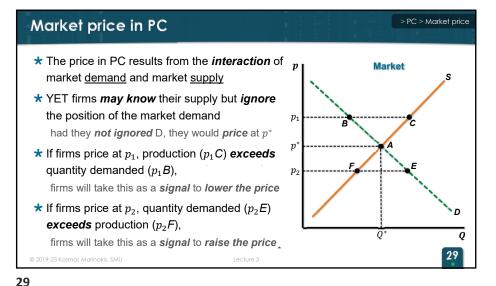
▶ When p is below AC (\$20) but above AVC (\$8) → *keep operating* in the S-R.

★ If p = \$7, operating losses would be \$20 - \$7 = \$13 per chair or \$130 per day:

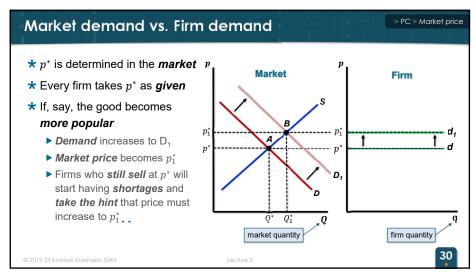
▶ If it shuts down, losses will be \$120 per day

▶ When p is below AVC (\$8) → *shut down* immediately.

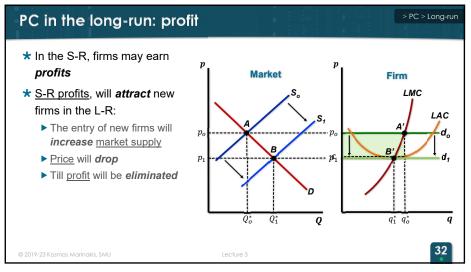




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PC in the long-run: losses

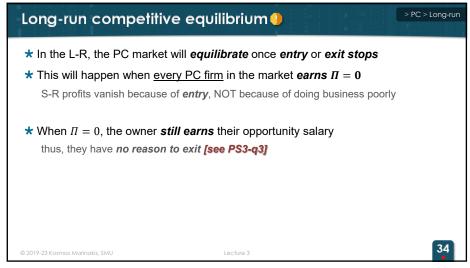
★ In the S-R, firms may have losses

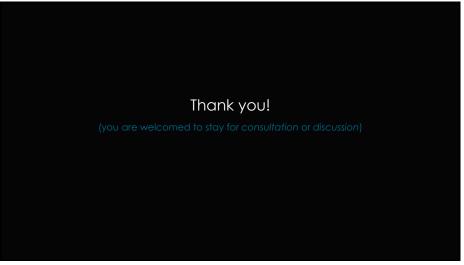
★ S-R losses, will push some firms out in the L-R:

▶ The exit of firms will decrease market supply

▶ Price will go up

▶ Till losses are eliminated





WARNING!

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