



Unit 2
Competitive Markets and
Efficiency (Chs. 2 & 3)
10/21

ECON 323 – MICROECONOMIC THEORY – DR. STRICKLAND

Introduction



We will examine:

- **Supply curves** (chapter 2)
 - Determinants of supply
 - Supply curves vs. inverse supply curves
 - Elasticity
- **Competitive market equilibrium** (chapter 2)
- **Efficiency of competitive markets** (chapter 3)

Supply



Supply: the firm's decision to produce a good/service

What matters for supply?

1. Price LAW OF SUPPLY: $\uparrow P \Rightarrow \uparrow Q_s$, $\downarrow P \Rightarrow \downarrow Q_s$
2. Costs of production
3. Producers' outside options
4. Number of producers

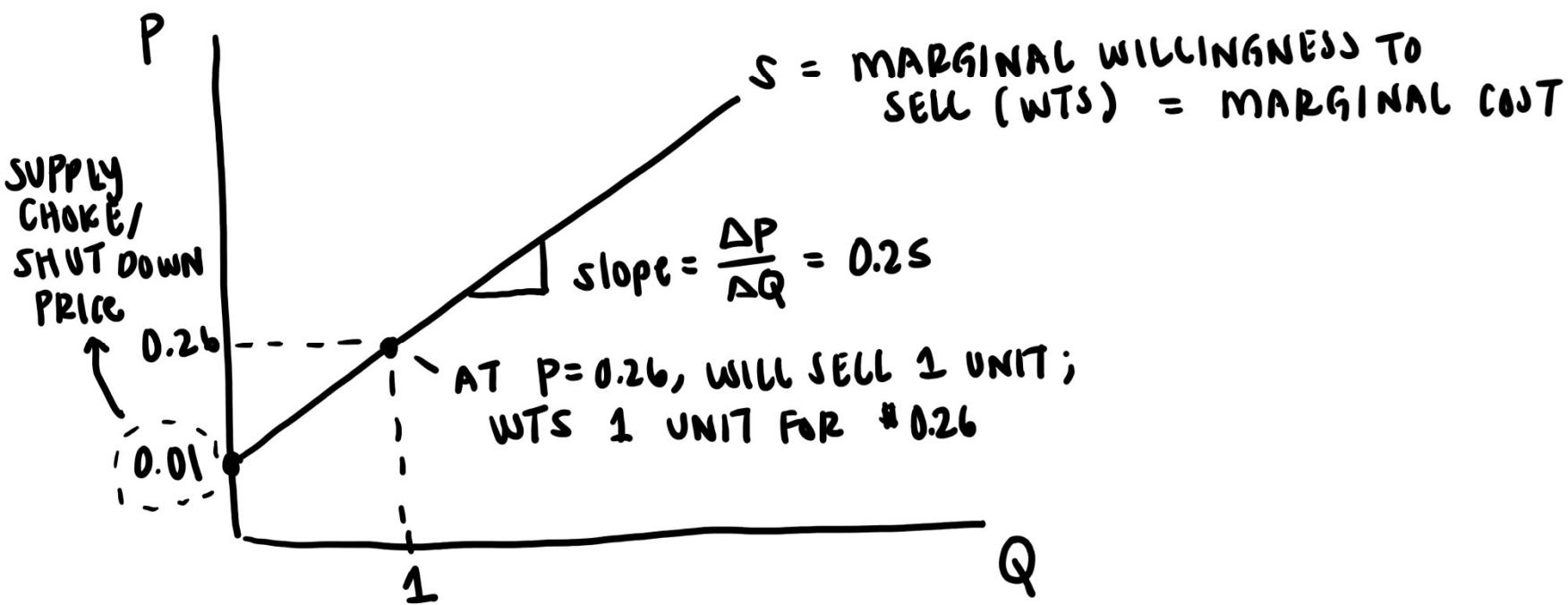
Supply Curves

A **supply curve** isolates the effect of price on quantity supplied

- Economists plot the **inverse supply curve**

SUPPLY CURVE: $Q_s = f(P)$ e.g. $Q_s = 200P + 50$

INVERSE SUPPLY: $P = f(Q_s)$ e.g. $P = 0.01 + 0.25Q_s$ * WHAT WE GRAPH





Price Elasticity of Supply

Price elasticity of supply: the percentage change in quantity supplied divided by the percentage change in price

$$\epsilon_s = \frac{\% \Delta Q_s}{\% \Delta P} = \frac{\Delta Q_s / Q_s}{\Delta P / P} = \left| \frac{\Delta Q_s}{\Delta P} \cdot \frac{P - \text{old}}{Q_s - \text{old}} \right|$$

* ELASTICITY BTWN 2 PRICES

$$\epsilon_s = \left| \frac{1}{\text{slope}} \cdot \frac{P}{Q_s} \right|$$

* ELASTICITY AT A PRICE

Handwritten notes:
New-old
old



Characterizing Price Elasticity of Supply

When price elasticity of supply is high...

- Elastic $|\epsilon_s| > 1$
- Infinitely high? Perfectly elastic $|\epsilon_s| = \infty$

When price elasticity of supply is low...

- Inelastic $|\epsilon_s| < 1$
- Zero? Perfectly inelastic $|\epsilon_s| = 0$

UNIT ELASTIC : $|\epsilon_s| = 1$

