#### Market for Factors of Production

#### ECO 120: Global Macroeconomics

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Goals Relevant Reading

- Specific goals:
  - Understand how quantities of factors of production are determined.
  - Understand how prices of factors of production are determined.
  - Understand what determines factor income.
  - Focus on labor and capital.
- Learning objectives:
  - LO2: Apply the supply and demand model to predict quantity and price outcomes of a number of different markets, including markets for currencies, labor, and loanable funds.
  - GELO2: Students will be able to construct and use models to analyze, explain, or predict phenomena.
  - Ultimate goal: use this knowledge to evaluate the impact of macroeconomic policies on the long-run growth rate of an open economy (LO6).

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Goals Relevant Reading

- Labor markets: none available.
- Investment/Saving market: Module 29, pages 277-282.

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Income From Factors of Production Supply and Demand Marginals

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#### Factors of Production

# • Factor income is income earned from owning and selling factors of production:

- Wages earned from working in labor market.
- Interest earned by renting capital.
- Rent earned by owning land.
- Price (wages, interest, or rent) and quantities of factors of production are determined by supply and demand.

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Income From Factors of Production Supply and Demand Marginals

#### Supply and Demand

- Demand for factors of production is derived demand: demand depends on the demand for the goods being produced with the factors of production.
- Supply for factors of production is determined households.
- Income is determined by equilibrium supply and demand.



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- Marginal Product (MP): additional level of production attained when hiring *one additional unit* of labor/capital/land.
- **Total Revenue**: total amount of revenue earned on selling the final good.
- Marginal Revenue (MR): additional revenue earned by producing one additional unit of the final good.
- Marginal Revenue Product (MRP): the additional revenue earned by hiring one additional unit of a factor of production.
  - MRP = MP\*MR

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Income From Factors of Production Supply and Demand Marginals

- Law of Diminishing Marginal Product a.k.a. Law of Diminishing Returns: the marginal product decreases as you hire additional units of a factor of production.
- What is the shape of the marginal product curve?
- Shape of marginal revenue curve: depending on the type of market, as output increases marginal revenue may decrease or may stay the same (but it does not increase).
- What is the shape of the marginal revenue product curve?

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Example Labor Demand Labor Supply Labor Market Equilibrium

#### Example

Suppose a company's production schedule is as given below. Suppose also the company has a constant price for its product at \$3 per item.

Labor	Quantity
0	0
2	16
4	28
6	36
8	40

Compute the total revenue, marginal revenue, marginal product, and marginal revenue product for each given level of production.

Example Labor Demand Labor Supply Labor Market Equilibrium

## **Choosing Labor Demand**

- If *MRP* > *wage*, would you be interested in hiring more or less labor?
  - If you did this, what would happen to MRP?
- If *MRP* < *wage*, would you be interested in hiring more or less labor?
  - If you did this, what would happen to MRP?
- Profit maximizing choice for labor demand: *MRP* = wage.
- Since the MRP curve tells us labor demand for each wage, *it is the labor demand curve*.

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# **Determinants** of Demand

- When something *besides the price of the factor of production* affects the marginal revenue product, the demand for a factor of production changes.
- Changes in the demand for the final good (changes MR).
- Changes in the quantities of other factors of production can change the MP.
  - An increase in capital makes labor more productive (increase in K increases MP<sub>L</sub>).

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- An increase in employment makes capital more productive (increase in L increases *MP<sub>K</sub>*).
- Changes in technology.

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- This of all your time as either leisure or labor.
- Leisure is a normal good.
  - What is the income effect for leisure, and therefore labor supply?
- What is the price (or opportunity cost) of leisure?
  - What is the substitution effect on leisure, and therefore labor supply, when the price of leisure increases?
- What will be the overall effect of the wage on labor supply? Will labor supply be upward sloping or downward sloping?

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#### What is the impact on equilibrium wages and employment when...

- There is an improvement in computer technology?
- There is an increase in demand from abroad for U.S. goods?
- There is an increase in the tax rate on labor income?
- A large part of the population (baby boomers) begins to retire?

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Demand Supply Equilibrium

#### Demand for Investment

- Investment spending today determines the amount of capital in the future.
- Investment typically involves very large expenditures. How do you think investment is funded?
- Demand for investment (future capital) depends on expected *future* marginal product of capital and expected *future* marginal revenue.
- What things can shift demand for capital?
  - Anything that affects future *MP<sub>K</sub>* or future *MR*.
  - Changes in technology.
  - Changes in the capital stock caused by war/destruction.
  - Expected future prices, profits.
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# Supply for Capital

- Who supplies capital? How do they do it? Very indirectly, it's households.
- Saving supply curve: How household saving responds to interest rate.

#### • Factors that shift saving supply:

- Income.
- Expected future income.
- Changes in level of precaution.
- Changes in wealth.

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- A hurricane destroys large amounts of capital stock in the Gulf of Mexico region.
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