



# From the Production Function to the Cost Function

# Production, Inputs, and Cost: Building Blocks for Supply Analysis



## Chapter Introduction

7-1 [The Economic Short Run Versus the Economic Long Run](#)

7-2 [Production, Input Choice, and Cost with One Variable Input](#)

7-2a [Total, Average, and Marginal Physical Products](#)

7-2b [Marginal Physical Product and the “Law” of Diminishing Marginal Returns](#)

7-2c [The Optimal Quantity of an Input and Diminishing Returns](#)

7-3 [Multiple Input Decisions: The Choice of Optimal Input Combinations](#)

7-3a [Substitutability: The Choice of Input Proportions](#)

7-3b [The Marginal Rule for Optimal Input Proportions](#)

7-3c [Changes in Input Prices and Optimal Input Proportions](#)

7-4 [Cost and Its Dependence on Output](#)

7-4a [Fixed Costs and Variable Costs](#)

7-4b [Input Quantities and Total, Average, and Marginal Cost Curves](#)

7-4c [The Law of Diminishing Marginal Productivity and the U-Shaped Average Cost Curve](#)

7-4d [The Average Cost Curve in the Short and Long Run](#)