# **Unit 1: Basic Economic Concepts**

# REVIEW

- 1. Explain relationship between scarcity and choices
- 2. Differentiate between positive & normative
- 3. Differentiate between price and cost \
- 4. Differentiate between consumer and capital goods
- 5. Differentiate between command economies and free market economies
- 6. Give examples of each of the 4 Factors of Production
- 7. Define human capital
- 8. Define tradeoffs
- 9. Define opportunity cost
- 10. Name 10 different teachers at ERHS?

## WE HAVE A PROBLEM!! The Economizing Problem... Scarcity Society has unlimited wants but limited resources

# The Production Possibilities Curve (PPC)

**Using Economic Models...** 

Step 1: Explain concept in wordsStep 2: Use numbers as examplesStep 3: Generate graphs from numbersStep 4: Make generalizations using graph

#### What is the Production Possibilities Curve?

- A <u>production possibilities curve</u> (or frontier) is a model that shows alternative ways that an economy can use its scarce resources
- This model graphically demonstrates scarcity, trade-offs, opportunity costs, and efficiency.

#### **4 Key Assumptions**

- Only two goods can be produced
- Full employment of resources
- Fixed Resources (*Ceteris Paribus*)
- Fixed Technology

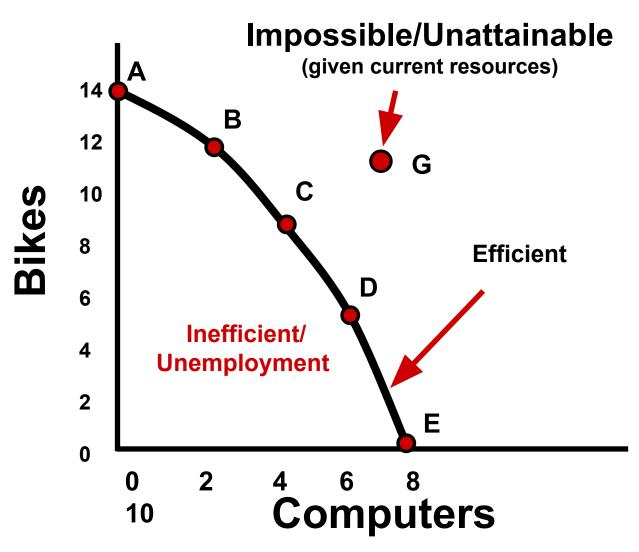
#### **Production "Possibilities" Table**

C B E A D **Bikes** 14 12 9 5 0 Computers 8 0 2 6 4

Each point represents a specific combination of goods that can be produced given full employment of resources.

**NOW GRAPH IT: Put bikes on y-axis and computers on x-axis** 

How does the PPG graphically demonstrates scarcity, trade-offs, opportunity costs, and efficiency?



## **Opportunity Cost**

#### **Example:**

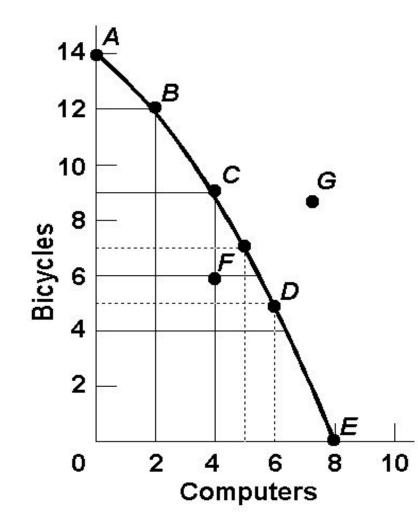
1. The opportunity cost of moving from a to b is... 2 Bikes

2.The opportunity cost of moving from b to d is... 7 Bikes

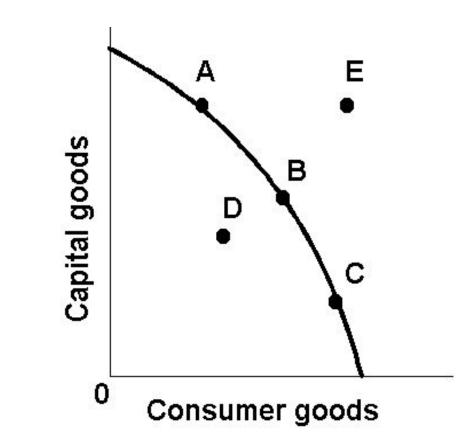
3. The opportunity cost of moving from d to b is... 4 Computer

4. The opportunity cost of moving from f to c is... 0 Computers5. What can you say about point G?

Unattainable



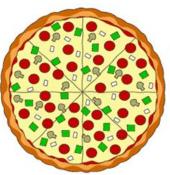
# The Production Possibilities Curve (or Frontier)



### Production Possibilities A B C D E CALZONES 4 3 2 1 0 PIZZA 0 1 2 3 4

- List the Opportunity Cost of moving from a-b, b-c, c-d, and d-e.
- <u>Constant Opportunity Cos</u>t- Resources are easily adaptable for producing either good.
- Result is a straight line PPC (not common)





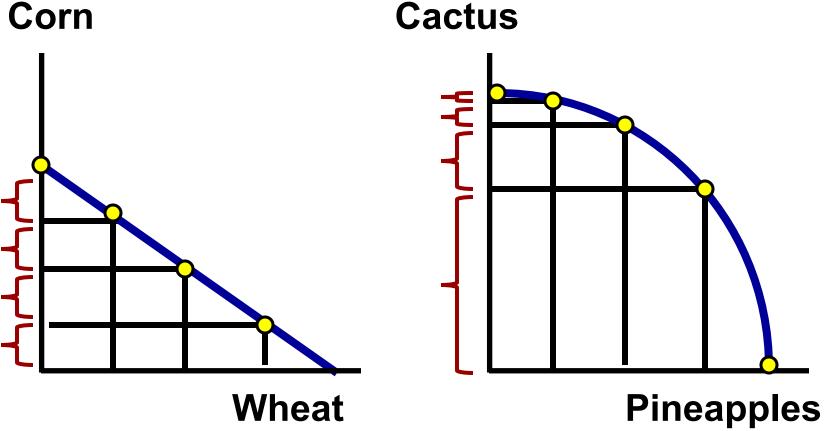
# Production Possibilities<br/>A B C D EPIZZA201916100ROBOTS01234

- List the Opportunity Cost of moving from a-b, b-c, c-d, and d-e.
- Law of Increasing Opportunity Cost-
  - As you produce more of any good, the opportunity cost (forgone production of another good) will increase.
  - Why? Resources are NOT easily adaptable to producing both goods.
- Result is a <u>bowed out</u> (Concave) PPC

## **Constant vs. Increasing Opportunity Cost**

#### **Identify which product would have a straight line PPC and which would be bowed out?**

Corn



# The Production Possibilities Curve and Efficiency

## **Two Types of Efficiency**

#### **Productive Efficiency-**

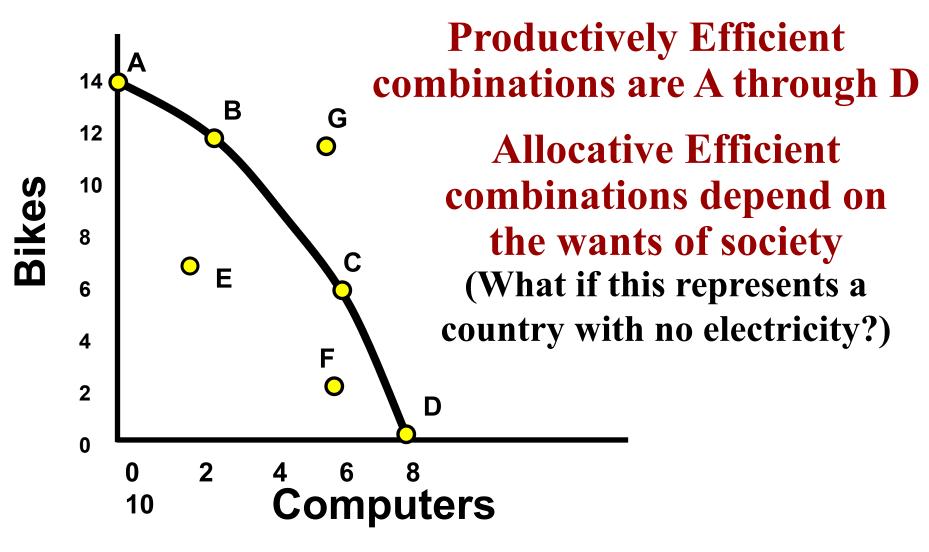
- Products are being produced in the least costly way.
- This is any point ON the Production Possibilities Curve

#### **Allocative Efficiency-**

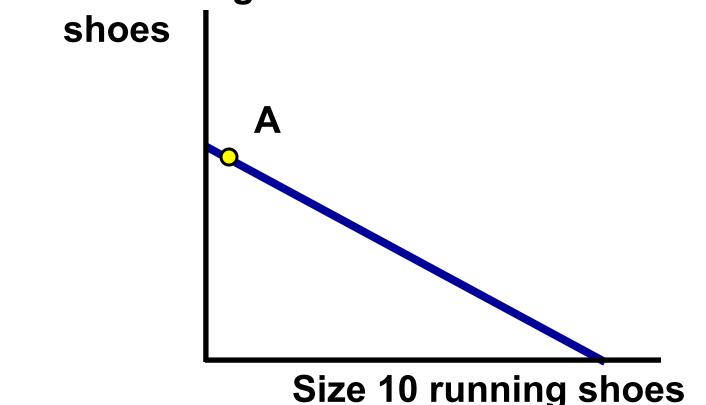
- The products being produced are the ones most desired by society.
- This *optimal* point on the PPC depends on the desires of society.

### **Productive and Allocative Efficiency**

Which points are productively efficient? Which are allocatively efficient?



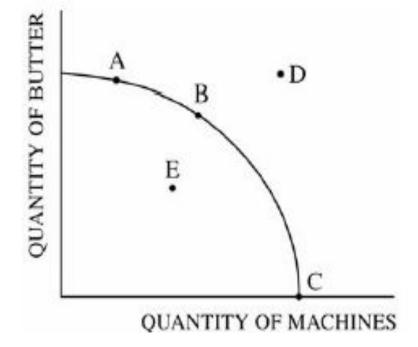
#### Why two types of efficiency? Is combination "A" efficient? Yes and No. It is productively efficient but it is not the combination society wants Size 20 running



#### 2008 Audit Exam

- 17. If resources were perfectly substitutable in all activities, which of the following would be true?
  - (A) Output of all goods could be increased at zero opportunity cost.
  - B The production possibilities curve would be a straight line.
  - (C) Specialization and mutually beneficial trade would be impossible.
  - (D) No country or individual would have
    - a comparative advantage in any activity.
  - (E) Scarcity of resources would be eliminated.

#### 2008 Audit Exam



- The diagram above shows the production possibilities curve for Country Y. Which of the following statements is true?
  - (A)

If Country Y is producing at point C, it is using all its resources efficiently.

- (B) The opportunity cost of producing more machines is constant.
- (C) Producing at point C is the most preferable, because butter is a nondurable good.
- (D) Country Y cannot produce at point E.
- (E) The economy is not producing at its potential, since it is not producing at point D.

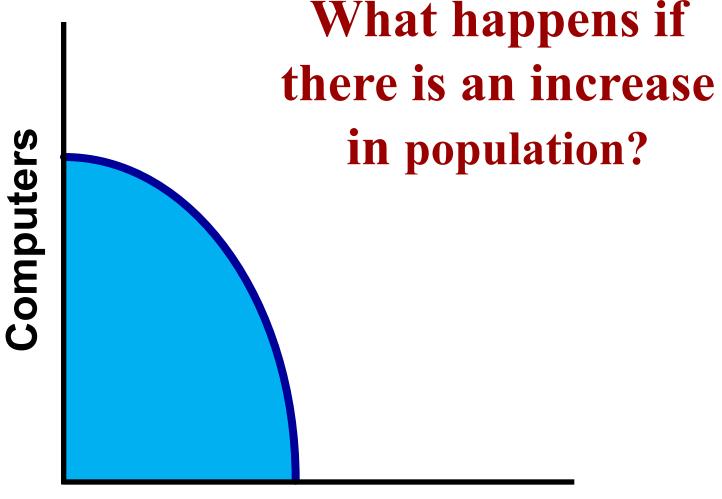
# **Shifting the Production Possibilities Curve**

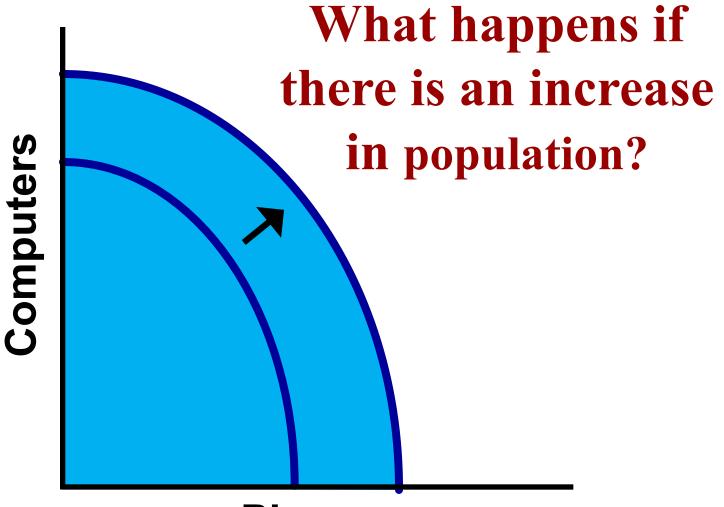
**4 Key Assumptions Revisited** 

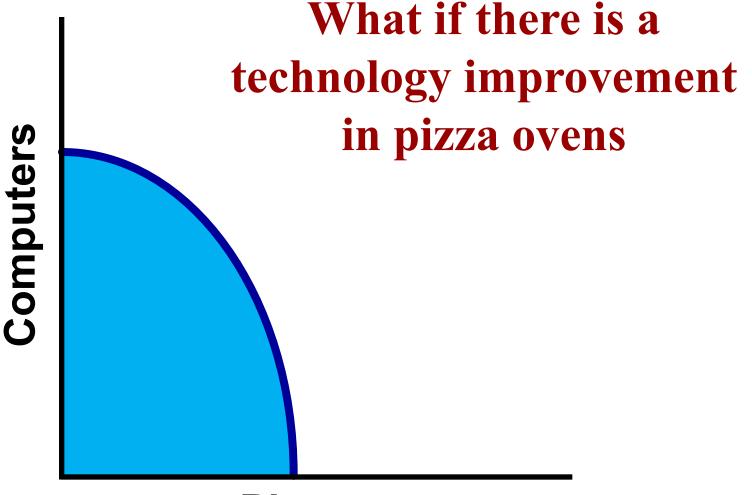
- Only two goods can be produced
- Full employment of resources
- Fixed Resources (4 Factors)
- Fixed Technology

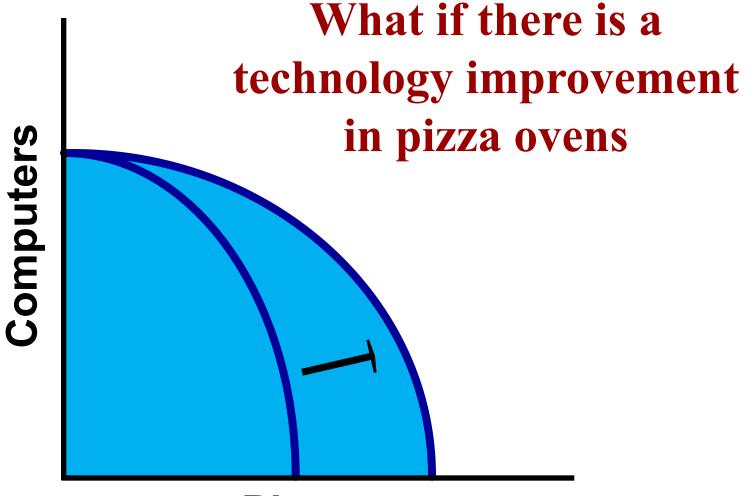
What if there is a change? **3 Shifters of the PPC** 

Change in resource quantity or quality
Change in Technology
Change in Trade





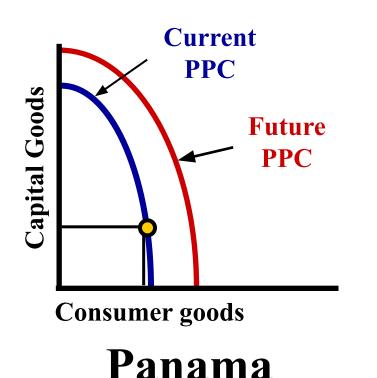




**Pizzas** 

**Capital Goods and Future Growth** Countries that produce more capital goods will have more growth in the future.

Panama – Favors Consumer Goods Mexico – Favors Capital Goods



Spool Future PPC Current PPC Current PPC Consumer goods Mexico

## **PPC Practice** Draw a PPC showing changes for each of the following:

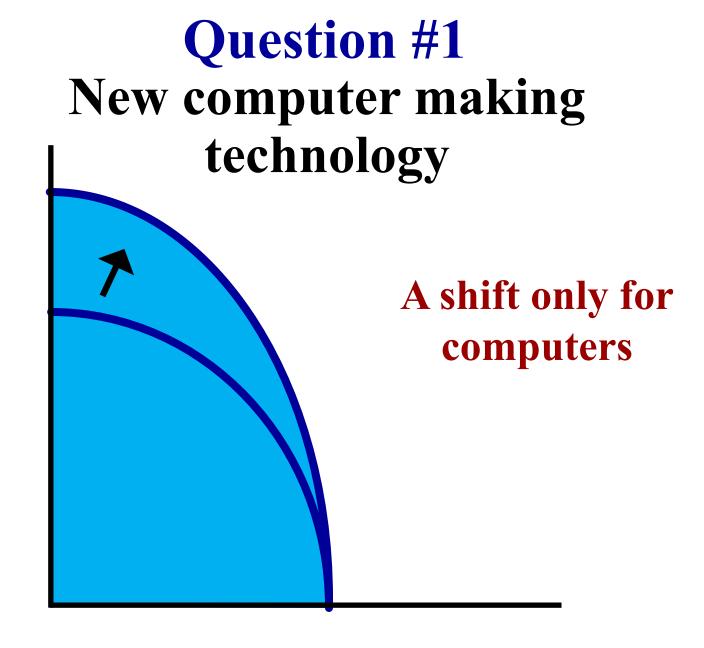
**Pizza and Computers (3)** 

- 1. New computer making technology
- 2. Decrease in the demand for pizza
- 3. Mad cow disease kills 85% of cows

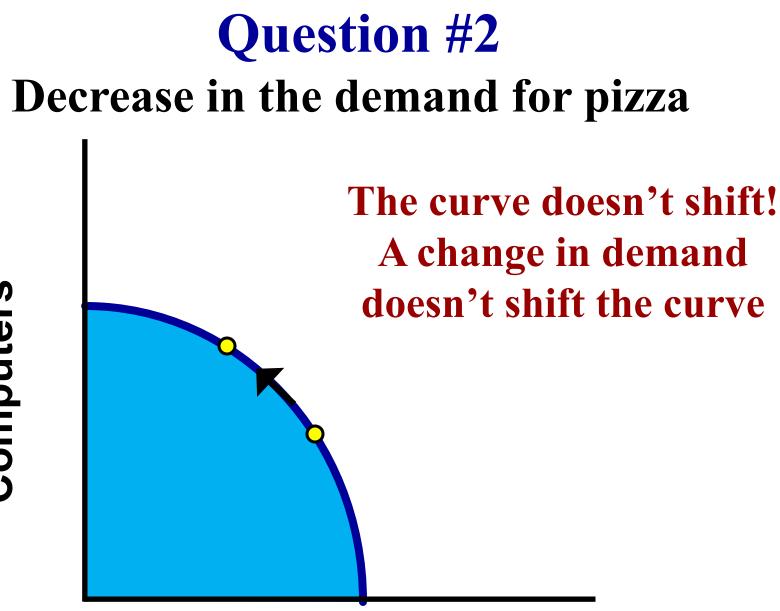
**Consumer goods and Capital Goods (4)** 

4. Destruction of power plants leads to severe electricity shortage

- **5. Faster computer hardware**
- 6. Many workers unemployed
- 7. Significant increases in education

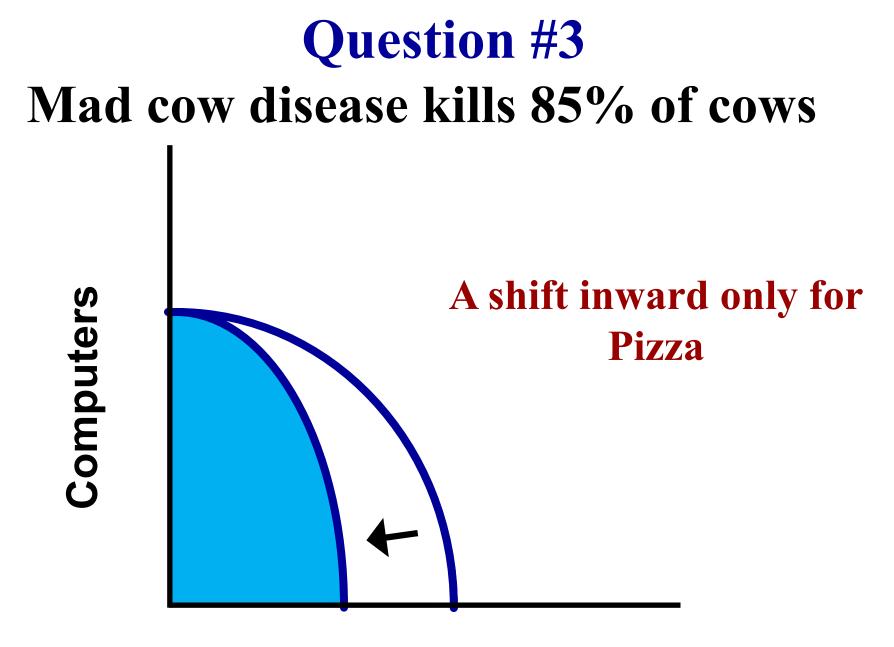


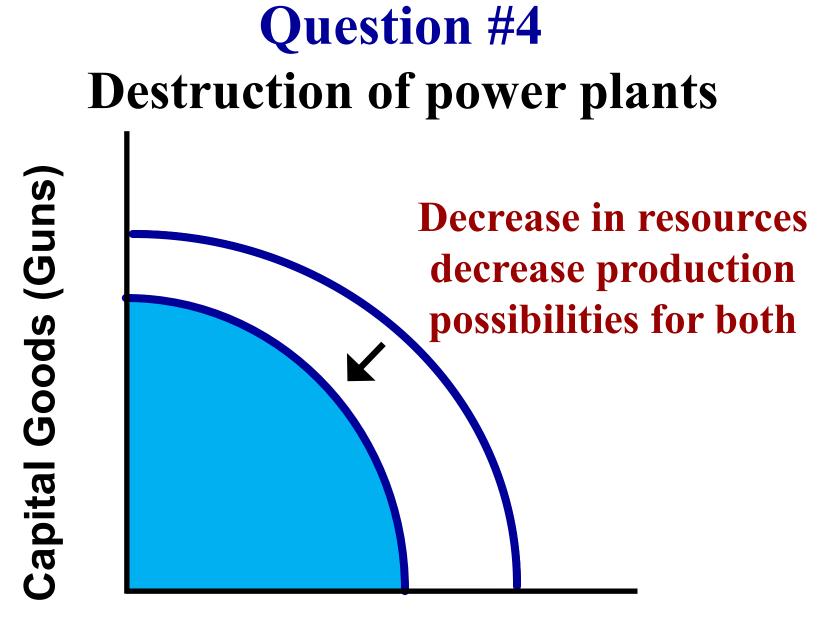
Computers

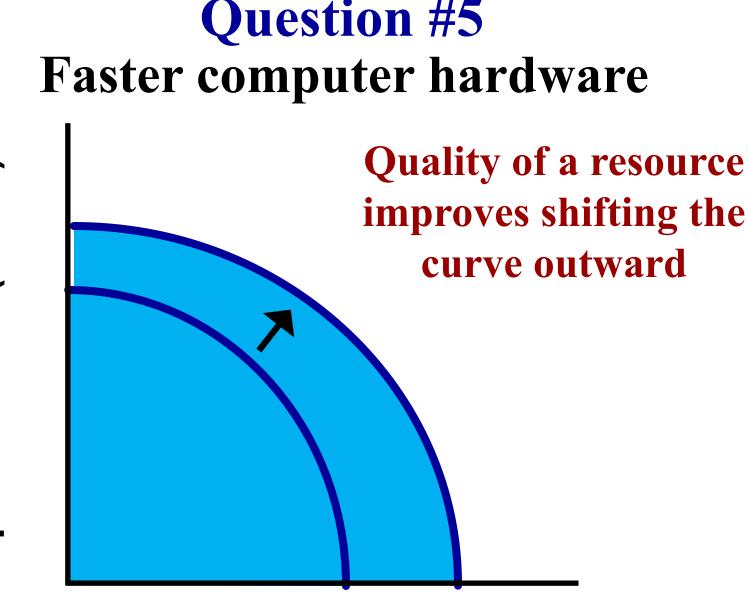


Pizzas

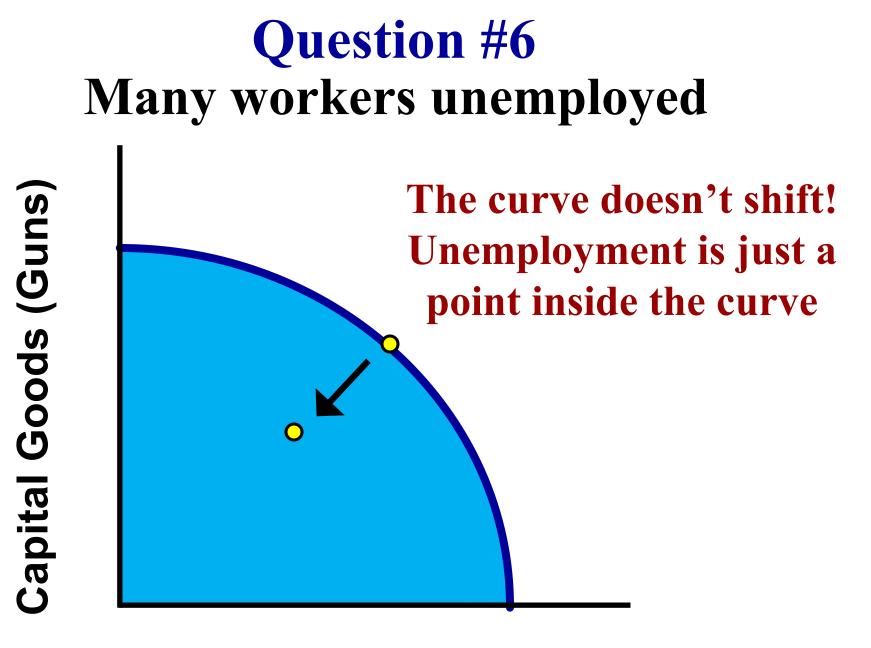
Computers

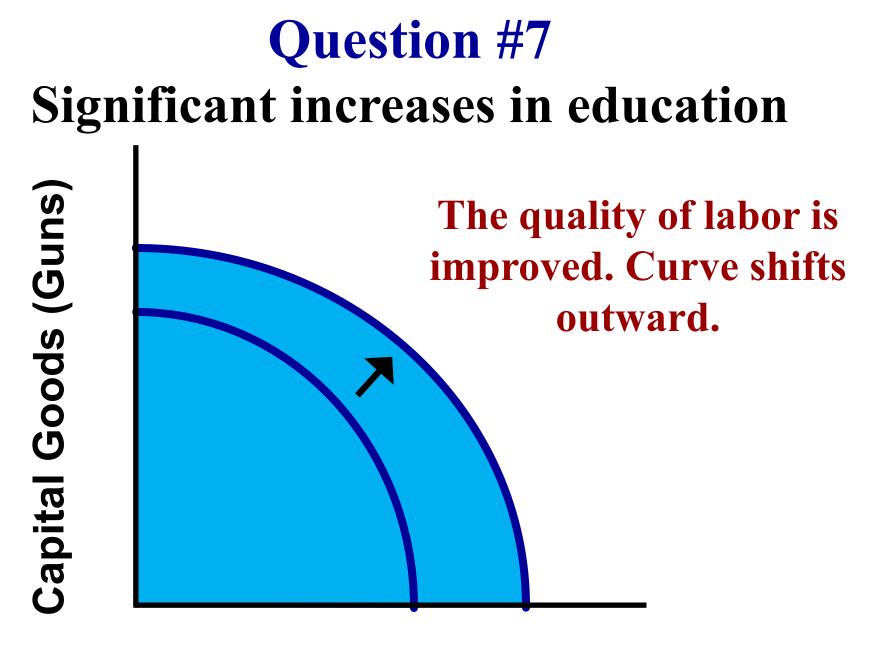






Capital Goods (Guns)





Extra graph to manipulate or add to powerpoint or questions

