

amount of imports before tariff: 65 ■ amount of imports after tariff: 35

D before tariff

Cs: a+b+c+d+e+f+g

PS: h

government revenue: 0

after tariff

cs: a+b+c

PS: h+d

government revenue: +

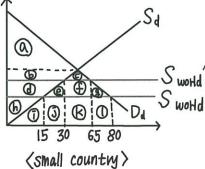
Effect of tariff

 $\triangle CS: -(d+e+f+g)$ 

APS: +d

△ goverment revenue: ++ Deadweight Loss:(e+g)

3) Effect of Import quota



■ amount of import before Import quota: 65

amount of import after Import quota: 35 (quota: 35)

DCS: - (d+e+f+g)

APS: + d

Quota Rents: +

Deadweight Loss: etg

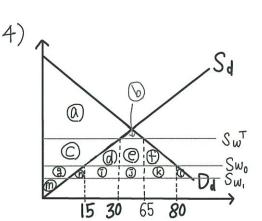
■ What is Same with Tariff

- 1 Increase PS, decrease CS
- 2 Reduce Imports
- 3 Raise price of goods

目 What is diffrent with Tariff

Tariff haise government vevenue, but Import Quota do not raise (Tax × Amount of government revenue.

Quota Rents (Quota X (Pquota - P+)) is Economic vents.



Amount of Import before tariff: 65
 Amount of Import after tariff: 35

< Large Country>

Before tariff

cs: a+b+c+d+e+f

PS: 9+m

government revenue: 0

After tariff

cs: a+b

PS: g+m+C

government revenue: e+j + j is extra terms of trade effect

■ Effect of Tariff

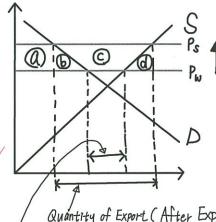
 $\Delta CS: -(c+d+e+f)$ 

 $\Delta PS: + C$ 

△ government revenue: + e

Deadweight Loss: d+f trade effect: ,; la+fl7 (j) so pet loss in this

5) Export subsidy (Small Country)



Domestic price of goods <u>raise</u>.

So,  $\triangle CS = -(a+b)$ 

 $\Delta PS = +(a+b+c)$ 

 $\triangle$  government cost = -(b+c+d)

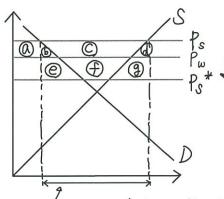
Deadweight Loss: b+d

Quantity of Export (After Export Subsidy)

Quantity of Export ( Before Export Subsidy)

=> Quantity Produced Increased
Quantity Consumed decreased

6) Export Subsidy (Large country case)



World price X. Domestic price of goods raise

$$\triangle CS = -(a+b)$$
  
 $\triangle PS = +(a+b+c)$ 

 $\triangle$  Government Cost = -(b+c+d+e+f+g)

Deadweight Loss: b+e+f+d+g

Quantity of Export After Export Subsidy

It is "Net Loss" to Country. Because surplus loss is larger than surplus gain.

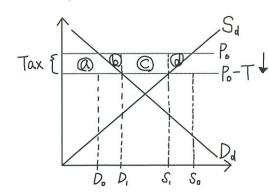
- 7) Specific Tariff is levied as fixed charge for each unit of goods imported.

  Ad valorem Tariff is levied as a fraction of the value of the imported goods.
- 8) NTB (Non Tariff Battier)
  examples: OSPS (Sanitary

examples: OSPS (Sanitary and Phytosanitary Measures)

2) TBT (Technical Barriers to Trade)

9) Export Tax (Small Country)



Domestic price of goods fall

Amount of Export Before Tax :  $S_0 - D_0$ Amount of Export After Tax :  $S_1 - D_1$ 

openment  $\Delta CS: + a$   $\Delta PS: -(a+b+c+d)$   $\Delta Tax revenue: + C$   $\Delta Tax revenue: + C$   $\Delta Tax revenue: + C$ 

It is "Net Loss' to Country.

10)

a) U.S. have an absolute advantage in the production both wheat and beef. Because U.S.s. "Amount of Production per unit of labor" of wheat and beef are larger than Argentina's.

b)&c)

apportuntes cost

Offer contract cost		
	U.S.	Argentina
wheat	13	1
Beef	3	/

b) U.S.: \frac{1}{3}, Argentina: 1 C) U.S.: 3, Argentina: 1

d) U.S. have comparative advantage in wheat.

Because opportunities cost of wheat production is smaller than Argentina.

Argentina have comparative advantage in Beef.

Because Argentina's opportunities cost of Beef production is smaller than U.S.

11)

a) U.S. have absolute advantage in production both wheat and beef

I Amount of labor to produce a unit of good

	V.S.	Argentina
Wheat	1 200	1 20
Beef	100	1 80

Wheat: 
$$\frac{1}{200} < \frac{1}{20}$$

wheat: 
$$\frac{1}{200} < \frac{1}{20}$$
beef:  $\frac{1}{100} < \frac{1}{80}$ 

b)&C)

Opportunies cost

	U.S.	Argentîna
wheat	12	4
Beef	2	4

b) U.S.: ½ , Argentina: 4 C) U.S.: 2 , Argentina: 4

d) U.S. have comparative advantage in wheat production. U.S. 's oppurtunity cost of wheat is smaller then Argentina's. Argentina have comparative advantage in beef production. Because Argentina's oppurtunity cost of beef is smaller then U.S.'s. 12) opputtunity cost

	Cloth	Widgets
Home	12	2
foreign	2	12

answer is b

Home country have comparative advantage in cloth production. Foreign country have comparative advantage in widgets production.

wages were to double 13)

example] Home Country's wage (per hour) 
$$\Rightarrow$$
 \$1  $\Rightarrow$   $\times$ 2  $\Rightarrow$  \$2 cloth 1 unit = 10 labor = \$10  $\Longrightarrow$  \$20 widget 1 unit = 20 labor = \$20 wagex2 \$40

Rising wages have raised costs for production, but there is no change in the number of labor required. So oppurtunity cost is same. yes

answer is a - yes (t).

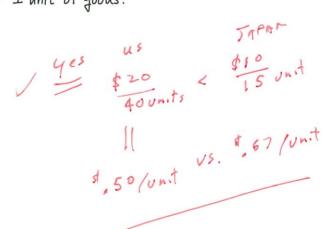
14)

☐ is production per 1 hour

50, \$20 means production cost of 1 unit of goods.

a) O b) X  $c) \times$  $d) \times$  $e) \times$ 

answer is a



15) Local content requirement is regulation that requires some specified fraction of a final good to be produced domestically. For example, a certain percentage of the value of the final good is regulated to be produced domestically.

Local content has a similar effect with import quota. So it benefits domestic producers.

In the short term, the price difference between imported and local inputs is passed on to consumers.

( domestic input is more expensive)

( at final price of goods)

In the long term, Local content is inefficient, It may hurt employment and industrial competiveness. And it may reduce trade.

It is more efficient to import products produced abroad than domestically, local content harms many areas because it forces them to use domestically produced products. Considering opportunity costs, it would be better to focus on goods that can be produced at a lower production cost at home.

## <example>

O Norway offshore industry (1970s)

If overseas company wants to obtain permission to explore or develop oil or gas in Norway,

It is requires the signing of an R&D partnership with a local Norweigian Company.

2) Brazīl's National Agency of Petroleum, Natural Gas and Biofuels (2007.11)

'Regulation ANP no.6'

It is mandatory to use domestic products and services by 25 to 84% by step in the oil or gas equipment and service industry.