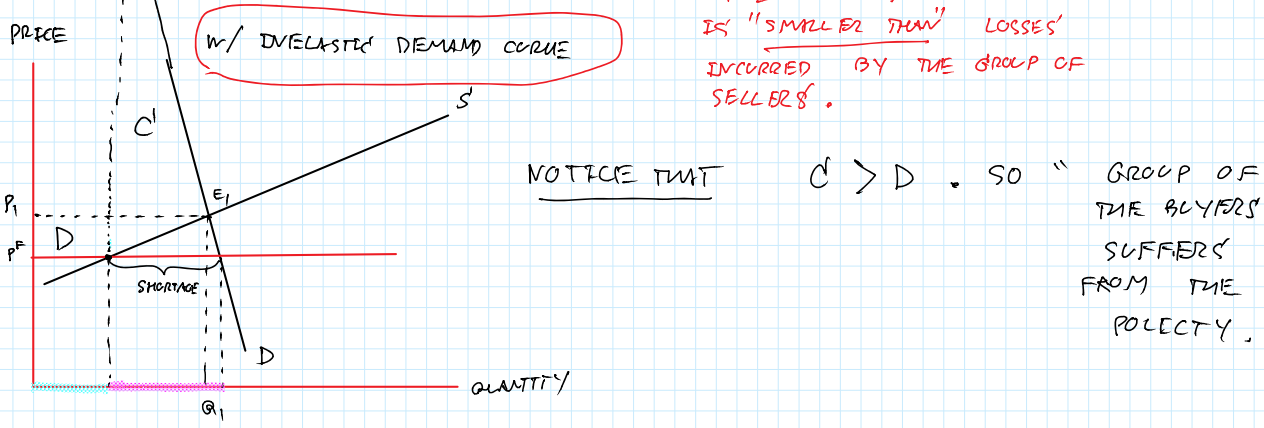
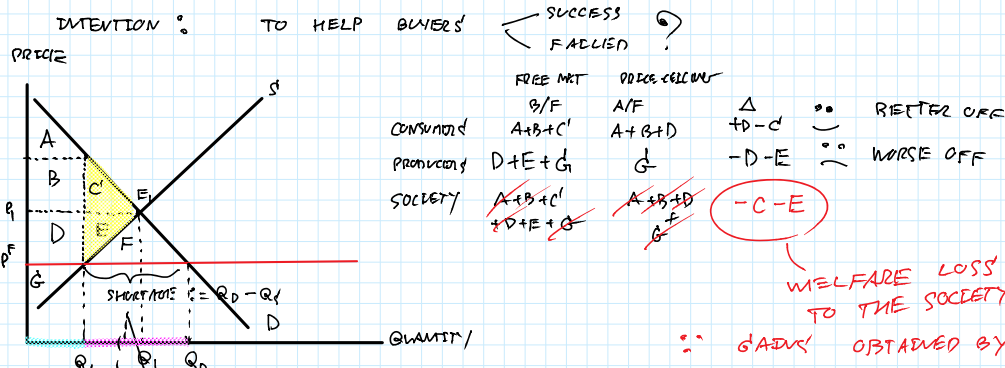


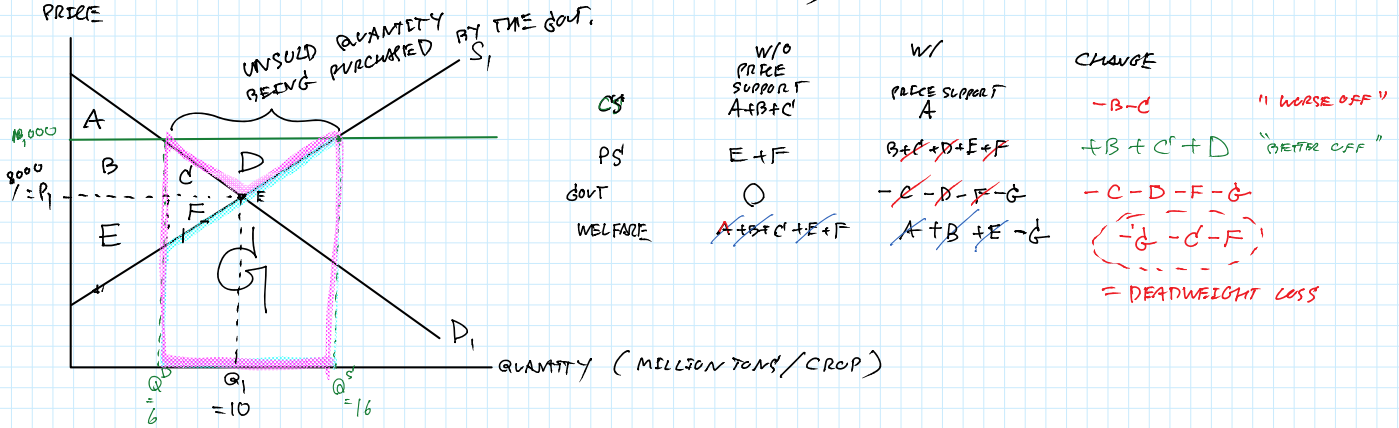
APPLICATIONS

- PRICE CEILING
- PRICE SUPPORTS
- IMPORT TARIFFS
- IMPORT QUOTAS
- EXPORT SUBSIDIES

PRICE CEILING : A LEGALLY MAXIMUM PRICE SELLERS CAN CHARGE FROM BUYERS



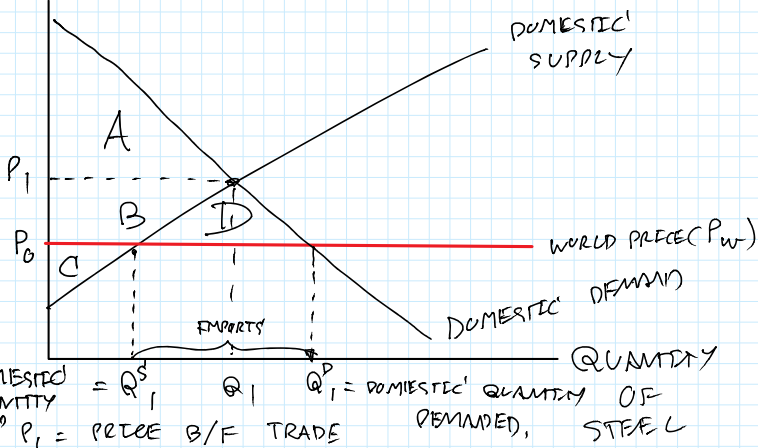
• PRICE SUPPORTS : A MINIMUM PRICE THAT SELLERS COULD RECEIVE WHEN THEY SELL THEIR GOODS. (PROMISED BY THE GOVT.)



APPLICATIONS ON INTL' TRADE

- WHAT DETERMINES WHETHER A COUNTRY IMPORTS OR EXPORTS A GOOD ? (EE451 → THEORY OF COMPARATIVE ADVANTAGE)
- IN SHORT, IF COUNTRY A HAS A RELATIVELY LOWER OPPORTUNITY COST OF PRODUCING GOOD X THAN COUNTRY B

OF STEEL WHEN TRADE IS PERMITTED.
PRICE OF STEEL



	W/O TRADE	W/TRADE	Δ
CS	A	A+B+D	+B+D
PS	B+C	C'	-B
TS	A+B+C	A+B+C'+D	+D

"GAINS FROM TRADE"

DEMAND, SUPPLY, AND APPLICATIONS (CONTINUED)

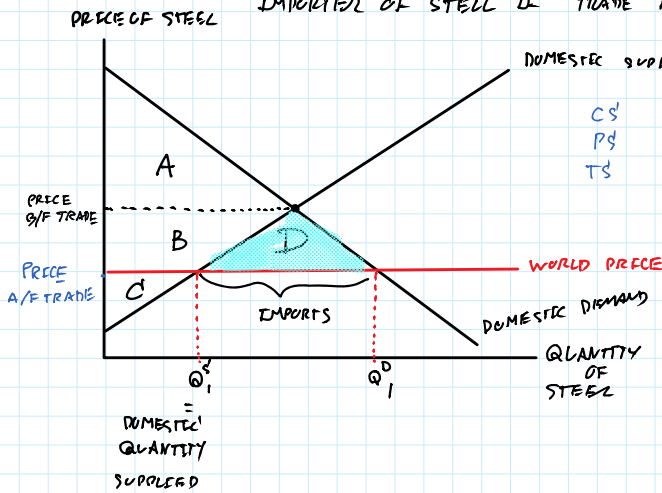
- PRICE CEILING ✓
- PRICE SUPPORT ✓
- IMPACT OF FREE TRADE ON AN EXPORTING COUNTRY ✓
- " " " AN IMPORTING COUNTRY → TODAY ✓
- IMPACT OF TRADE RESTRICTIONS ON WELFARE OF STAKEHOLDERS

- IMPORT TARIFFS
 - IMPORT QUOTA
 - EXPORT SUBSIDY
- TODAY

DOMESTIC CONSUMERS
 DOMESTIC PRODUCERS
 GOVERNMENTS
 LICENSE HOLDERS!
 (IN IMPORT QUOTA CASE)

INTERNATIONAL TRADE AND THE IMPORTING COUNTRY

BASIC IDEA: IF THE WORLD PRICE IS LOWER THAN THE DOMESTIC PRICE, THE COUNTRY WILL BE AN IMPORTER OF STEEL IF TRADE IS PERMITTED.



	G/F TRADE	A/F TRADE	IMPACT OF FREE TRADE
CS	A	A+B+D	+B+D
PS	B+C	C	-B
TS	A+B+C	A+B+C+D	(+D)

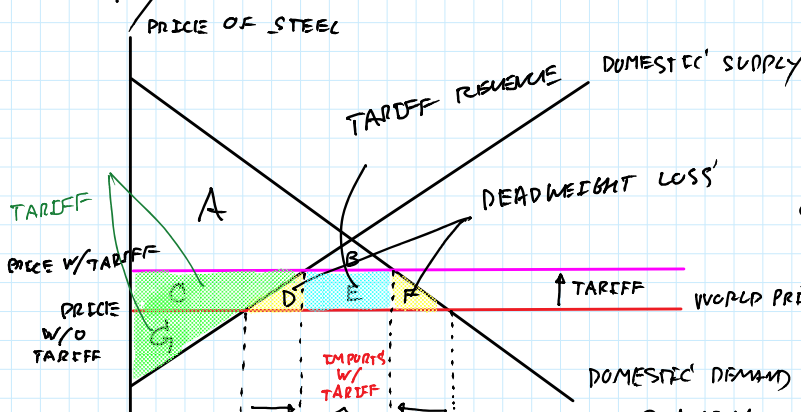
SHOWS THE INCREASE IN TOTAL SURPLUS AND IT REPRESENTS "GAINS FROM TRADE"

CONCLUSION: ① W/ FREE TRADE, EITHER FOR EXPORTING COUNTRY OR FOR IMPORTING COUNTRY, SOME GROUPS LOSE AND SOME GROUPS GAIN.

② THE NET CHANGE IN TOTAL SURPLUS IS POSITIVE IN BOTH CASES — EXPORTING COUNTRY CASE, IMPORTING COUNTRY CASE.

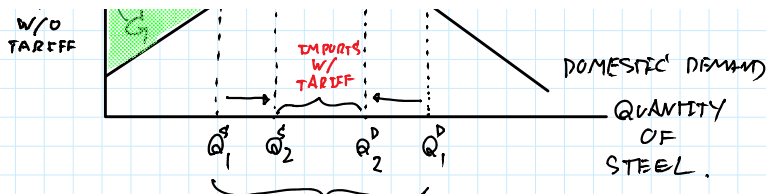
IMPACT OF IMPORT TARIFFS

TARIFFS ARE TAXES ON IMPORTED GOODS. TARIFFS RAISE THE PRICE OF IMPORTED GOOD ABOVE THE WORLD PRICE BY THE AMOUNT OF THE TARIFF.



	G/F TARIFF	A/F TARIFF	IMPACT OF TARIFF
CS	A+B+C+D+E+F	A+B	-(C+D+E+F)
PS	0	G+C	+C
GOVT. REVENUE	0	E	+E
TS	A+B+C+D+E+F	A+B+C+E	(-D-F)

SHOWS THE FALL IN TOTAL SURPLUS AND DECREASE



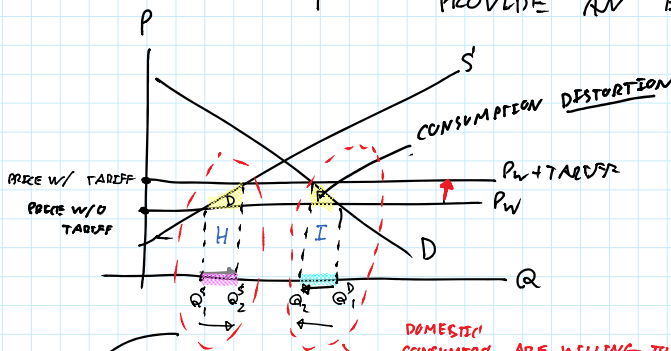
W/O TARIFF : DOMESTIC BUYERS BUY Q_1^D AND DOMESTIC PRODUCERS PRODUCE AND SELL Q_1^S . AMOUNT OF IMPORTS = $Q_1^D - Q_1^S$.

W/ TARIFF : DOMESTIC BUYERS DECREASE THEIR PURCHASE FROM Q_1^D TO Q_2^D IN RESPONSE TO HIGHER PRICE (= $P_w + \text{TARIFF}$) DOMESTIC PRODUCERS INCREASE THEIR PRODUCTION FROM Q_1^S TO Q_2^S WHEN THEY RECEIVE A HIGHER PRICE. AMOUNT OF IMPORTS NOW IS $Q_2^D - Q_2^S$ WHICH IS "SMALLER" THAN THE AMOUNT OF IMPORT $Q_1^D - Q_1^S$.

- IMPACT OF A TARIFF :
- DOMESTIC CONSUMERS LOSE. (WORSE OFF)
 - DOMESTIC PRODUCERS GAIN. (BETTER OFF)
 - GOVERNMENT GAINS TARIFF REVENUE (= AREA E)
 - $DWL = -D - F$ OF TARIFF = "FALL IN TOTAL SURPLUS"

ADDITIONAL CONSIDERATION

WHY DEADWEIGHT LOSS OCCURS? PROVIDE AN ECONOMIC INTUITION.



W/ TARIFF, DOM. PRODUCERS INCREASE THEIR PRODUCTION FROM Q_1^S TO Q_2^S .
 • COST OF PRODUCING Q_2^S WOULD BE ONLY H IF IT IS PRODUCED BY THE REST OF THE WORLD
 • HOWEVER, THE COST OF PRODUCING THIS AMOUNT BY DOMESTIC PRODUCERS IS $H + D$!!! WHICH IS CLEARLY HIGHER.

FROM EFFICIENCY VIEW POINT, WE SHOULD IMPORT THIS AMOUNT FROM THE REST OF THE WORLD INSTEAD OF PRODUCING DOMESTICALLY.

SO, AREA D REPRESENTS "DWL THAT ARISES FROM INEFFICIENCY IN PRODUCTION". WE CAN CALL "PRODUCTION DISTORTION".

“ DWL THAT ARISES FROM INEFFICIENCY IN PRODUCTION.”
 WE CAN CALL “ PRODUCTION DISTORTION ”

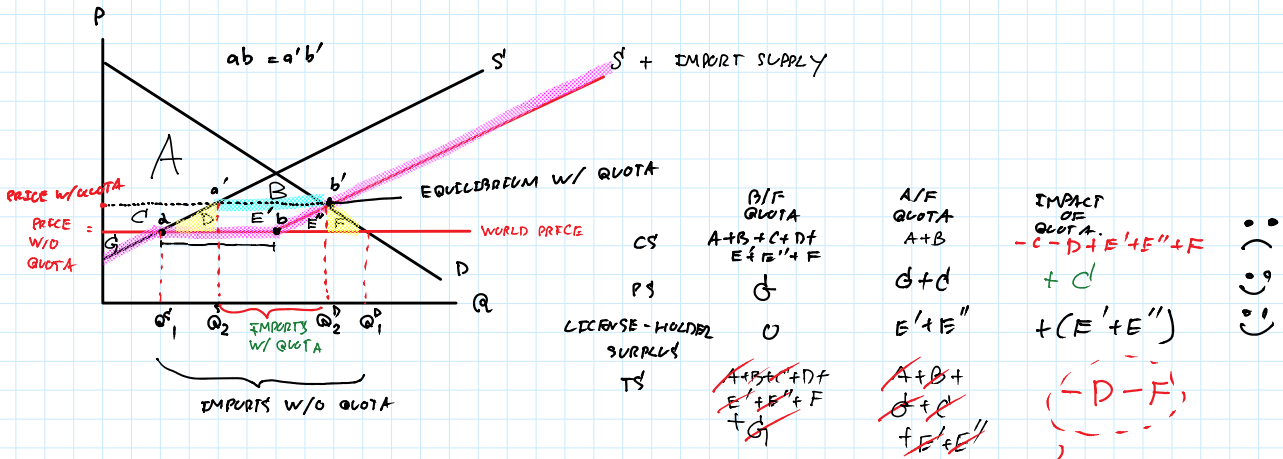
$$DWL = -D - F$$

FROM PRODUCTION DISTORTION FROM CONSUMPTION DISTORTION

IMPACT OF IMPORT QUOTA

AN IMPORT QUOTA IS A DIRECT RESTRICTION ON THE QUANTITY OF SOME GOOD THAT MAY BE IMPORTED.

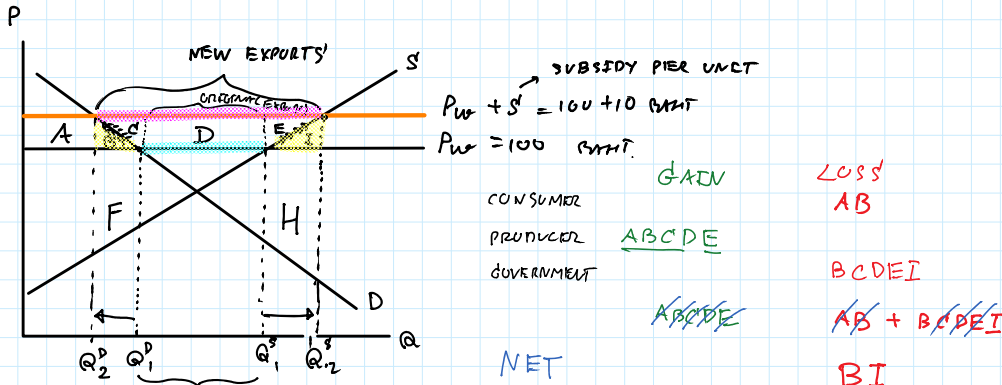
AN IMPORT QUOTA WILL RAISE DOMESTIC PRICE BY THE SAME AMOUNT AS A TARIFF THAT LEMETS TO THE SAME LEVEL.



SHOWS THE FALL IN TOTAL SURPLUS AND REPRESENTS DWL OF QUOTA.

EXPORT SUBSIDY

AN EXPORT SUBSIDY IS A GOVERNMENT PAYMENT TO A FIRM THAT SELLS A GOOD ABROAD. SO DOMESTIC PRODUCERS RECEIVE THE WORLD PRICE PLUS THE SUBSIDY FOR EACH UNIT OF A PRODUCT SHIPPED ABROAD, THEREFORE SHIFTING SALES FROM DOMESTIC TO FOREIGN MARKETS.



FACT#1

GIVEN P_w , DOMESTIC PRODUCERS PRODUCE Q_1^S . DOMESTIC CONSUMERS PURCHASE Q_1^D . QUANTITY OF EXPORTS = $Q_1^S - Q_1^D$.

FACT#2

WHEN EXPORT SUBSIDY IS INTRODUCED, IT WILL RAISE THE DOMESTIC PRICE TO $P_w + S$.

- DOMESTIC CONSUMERS REDUCE THEIR CONSUMPTION TO Q_2^D .

SUBSIDY / UNITS, SAY $S = 10$ PAINT/UNIT.

- DOMESTIC PRODUCERS INCREASE THEIR PRODUCTION TO Q_2^S .
- NEW EXPORTS = $Q_2^S - Q_2^D$ (HIGHER THAN ORIGINAL AMOUNT OF EXPORTS)

FACT#3

CONSUMERS' LOSS.

LOSS IN CONSUMER SURPLUS = **AB**

PRODUCERS' GAIN.

GAIN IN PRODUCER SURPLUS = **ABC'D'E**

INCREASE IN PS FOR THOSE FIRMS THAT WERE PRODUCING B/F THE SUBSIDY

INCREASE IN PS FOR THOSE FIRMS THAT ARE INDUCED TO PRODUCE THE AMOUNT OF $Q_2^S - Q_1^S$.

NET? → WELFARE LOSS = **BI** (OR DWL)

LET'S SEE WHY DWL OF **BI** ARISES...

ECONOMIC INTUITION

LET'S CONSIDER THE **B** FIRST.

NEW EXPORT REVENUE OF Q_1^D, Q_2^D = **F**

LOSS OF BENEFITS DOMESTIC CONSUMERS WHEN THIS AMOUNT OF Q_1^D, Q_2^D ARE BEING SOLD TO FOREIGN CONSUMERS = **BF**

NET **B**

FORGONE BENEFITS **BEYOND** THE NEW EXPORT REVENUE RECEIVED!

NEXT, LET'S CONSIDER THE DWL OF **I**

NEW EXPORT REVENUE THAT AMOUNT OF Q_1^S, Q_2^S GENERATED WHEN THIS AMOUNT IS SOLD ABROAD = **H**

TOTAL PRODUCTION COST = **HI** (i.e., AREA UNDER THE SUPPLY CURVE FROM Q_1^S TO Q_2^S)

NET **I**

SHOWS "INEFFICIENCY IN PRODUCTION (WHY?)"

B/c' COST OF PRODUCING THESE UNITS (= Q_1^S, Q_2^S) EXCEEDS

TRULY REVENUE THE PRODUCERS EARN FROM SELLING THIS AMOUNT!

NOTE WE DO NOT TAKE INTO A/C THE CHECK OF 10 BAIT THAT PRODUCERS GET B/c' THIS PART OF REVENUE IS JUST A TRANSFER FROM TAXPAYERS → GOVERNMENT → POCKETS OF

HW1

EVALUATE WELFARE OF ALL STAKE HOLDER IN AN EXPORTING COUNTRY WHERE EXPORT TAX IS INTRODUCED, i.e., WHEN EXPORTING A UNIT OF GOOD, DOMESTIC PRODUCERS MUST PAY t BAHT/UNIT. FULLY EXPLAIN W/ DIAGRAM.

DUE DATE: WED 28 JAN 2015 (BEFORE CLASS BEGIN)

REMARK: BE AWARE OF "PLAGIARISM".