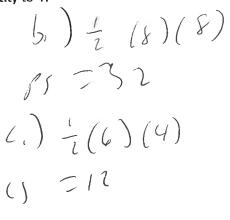
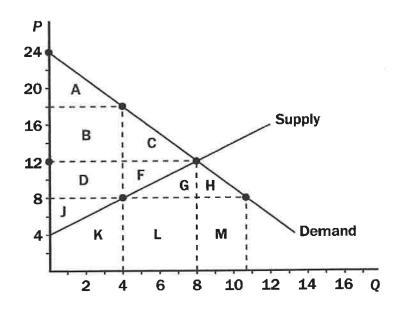
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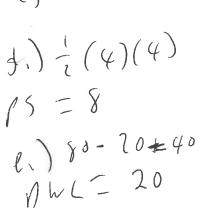
EC 11 Problem Set 4 – Due 3/28

- 1.) Refer to the figure below for the following questions:
- α) $\frac{1}{2}(12)(8)$

- a.) What is consumer surplus at equilibrium?
- b.) What is producer surplus at equilibrium?
- c.) What is consumer surplus if the tax shown pushes quantity to 4?
- d.) What is producer surplus with the same tax?
- e.) What is deadweight loss?







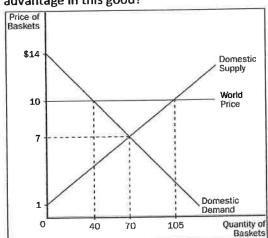
2.) John has been in the habit of mowing Hannah's lawn each week for \$20. John's opportunity cost is \$15, and Hannah would be willing to pay \$25 to have her lawn mowed. What is the maximum tax the government can impose on lawn mowing without discouraging John and Hannah from continuing their mutually beneficial arrangement?

Max tax 2 8/0

a \$ 10 gap between the tarah pass and John recens.

3.) Use the graph below to answer the following questions:

- a.) Without trade, CS is
- b.) Without trade, PS is
- c.) With free trade the country will the country import or export the good? How much will be imported or exported?
- d.) If the country chooses to trade, what is the price of the good?
- e.) With trade, what is CS?
- f.) With trade, what is PS?
- g.) How much does total surplus increase with trade? Does the country have a comparative advantage in this good?



$$a.) \frac{1}{2}(7)(70)$$
 $b.) \frac{1}{2}(6)(70)$
= 245 = 210

$$61)$10$$
 $(4)(40)=80$

$$61)810$$
 $(4)(40)=80$
 $(7)\frac{1}{2}(9)(105)=4725$

9) 15 septi = 2451210=455 15 AAr = 4725+80=552,5 [Irviase of 97,5]

Los John Col