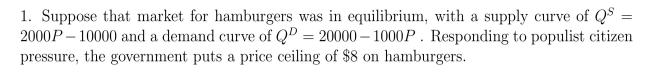
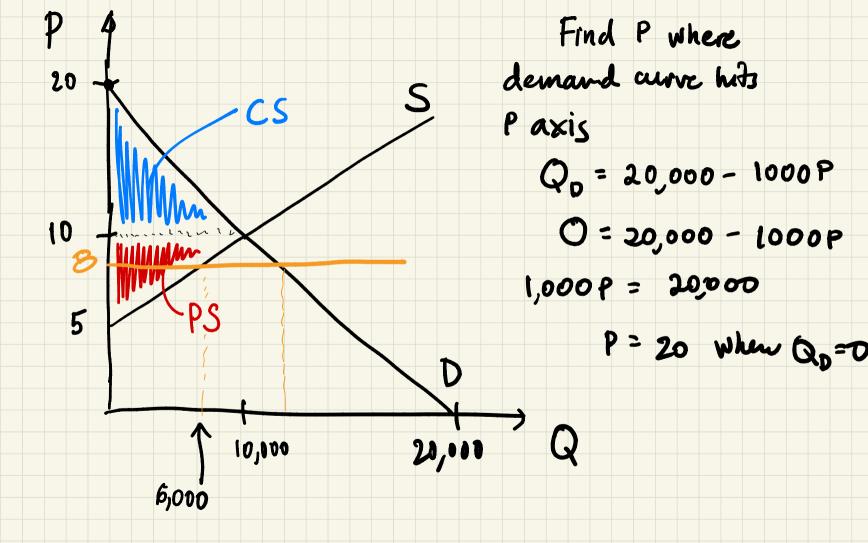
Lecture 2- lu Class Problems EVENING-

9/8/2020



- (a) In market equilibrium, before the ceiling, find
 - (a) equilibrium price
 - (b) producer surplus
 - (c) consumer surplus

$$Q_s = Q_b$$
 $2000P - (0,000 = 20,000 - 100P)$
 $\Rightarrow P = 10$



Find a second pt on the demand curve. Find egbm 9ty Plug in eapon price into (6) Find a when p=10 QD rQ (a) Q₀- 20,000 - 10008 QD = 20,000 - 1000 (10) Q02 20,000 - (000(0) = 20,000 - 10,000 Q > 20,000 = 10,000 = QD

$$CS = \frac{1}{2}(5)(h)$$

$$= \frac{1}{2}(10,000)(20-10)$$

$$= \frac{1}{2}(10,000)(10)$$

$$= \frac{1}{2}(10,000)(10-5)$$

$$= \frac{1}{2}(10,000)(10-5)$$

$$= \frac{1}{2}(10,000-5)$$

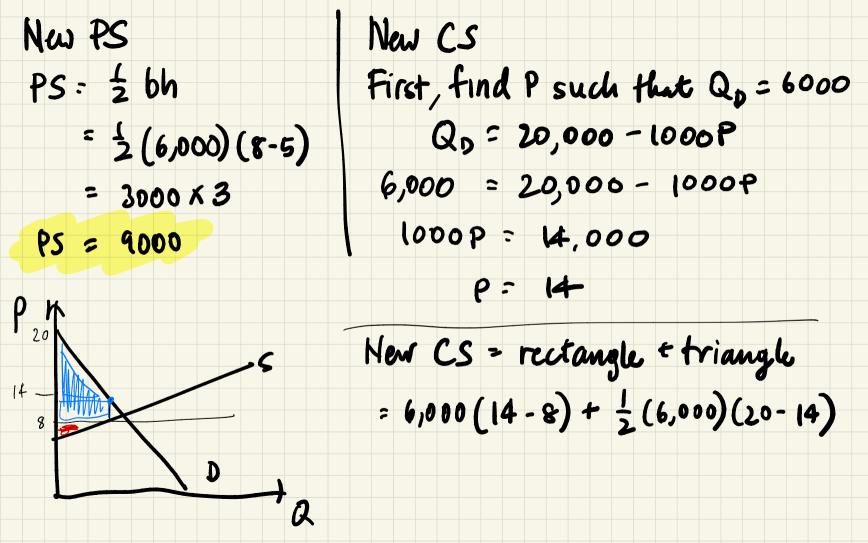
$$= \frac{1}{2}(10,000-5)$$

PS - Find P where Qs=0 Qs = 2000 P - 10,000 O = 2000P - 10,000 10,000 = 2000P

1. Suppose that market for hamburgers was in equilibrium, with a supply curve of $Q^S = 2000P - 10000$ and a demand curve of $Q^D = 20000 - 1000P$. Responding to populist citizen pressure, the government puts a price ceiling of \$8 on hamburgers.

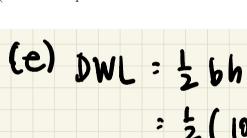
- (b) After the price ceiling, find(a) new quantity(b) producer surplus
 - (c) consumer surplus

Find now off when P=8 $Q_s = 2000P - 10,000$ $Q_s = 2000(8) - 10,000$ $Q_s = 10,000 - 10,000$ $Q_s = 6,000$



1. Suppose that market for hamburgers was in equilibrium, with a supply curve of $Q^S =$ 2000P-10000 and a demand curve of $Q^D=20000-1000P$. Responding to populist citizen pressure, the government puts a price ceiling of \$8 on hamburgers.

- (b) After the price ceiling, find
 - (d) transfer
 - (e) deadweight loss
 - deadweight loss as a share of the transfer (from either producers to consumers or vice-versa)
- Size of the transfer = rectangle = (6,000) (10-8) = 12,000 \$



= 2 (10,000 - 6,000) (14-8) = 1 (4,000) (6) = 12,000 = DWL

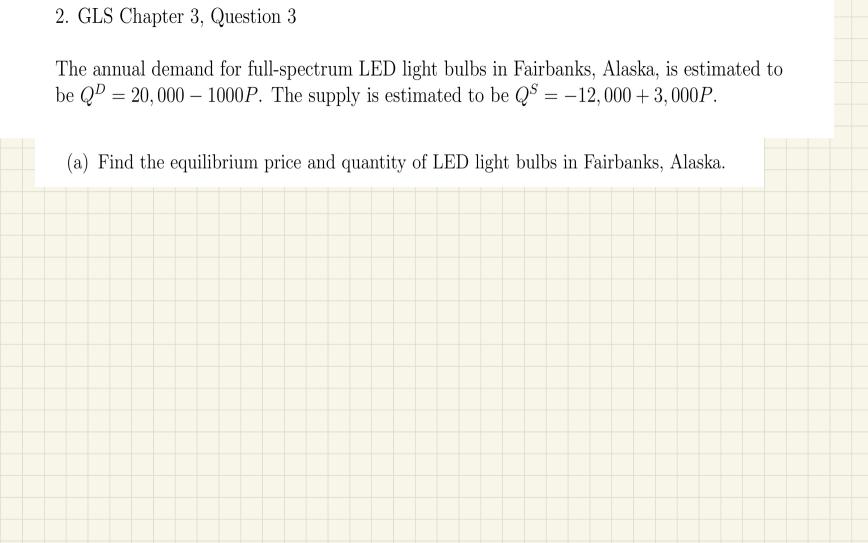
(+) DWL

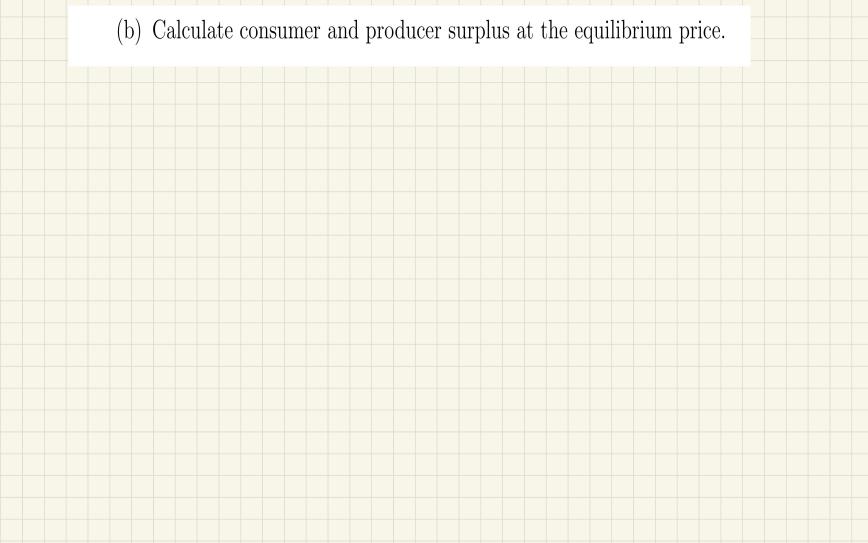
transfer

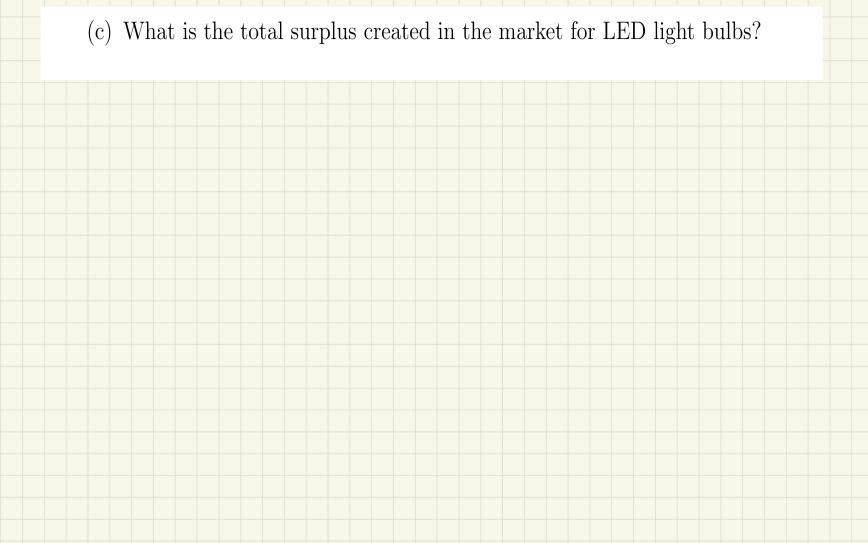
(2,000

12,000

(c) Up until now, we assumed that all hamburgers were created equal, and it is self-evident that they are not. If there is a variety of hamburger quality, which hamburger sellers will be the most harmed by this policy?







(d)		ad e ur			oul	d d	con	ısu	me	ers	ge	et n	no	re	su	rpl	lus	if	th	ер	ric	e '	we.	re	\$6	ar	nd	th	e ç	qua	ınt	ity	Ţ	