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Homework 4

Name _____ Student ID # _____

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| B | C | B | В | В |

(1)
$$(x=b)(x)=50$$
 $P^{*}=LAC=b$
 $Q^{*}=600-50$
 $P^{*}=500$
 $P^{*}=500$
 $P^{*}=500$

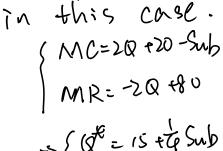
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$$Q=200-20P=120$$
 $n=Q=\frac{120}{6}=20$
 $STC=2Q^3-24Q^2+989$
 $\Rightarrow SMC=6Q^2-48Q+96$
 $Supply: P=SMC$
 $S(Z'=1120-10P')$
 $P'=6(Q')^2-48(Q')+96$
 $S(Z'')^2=60$
 $S(Z'')^2=60$
 $S(Z'')^2=8$
 $S(Z'')^2=8$

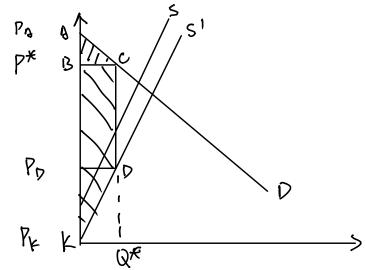
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Mowpolist wants to maximize profit with payment



=> ((= 15 + 4 Sub 1 px = 80 - Q#=65-4 Sub

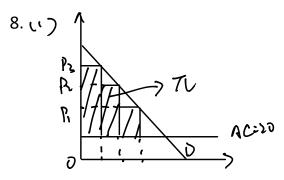


Grav't wants to reaches TS max:

when Sub=20, 75 reaches marsimum.

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70-2400-3600-1600 elefor-efor-1600=1200

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$$T_{1} = -P_{1} + 100P_{1} - 160$$

$$T_{1} = -P_{1} + 100P_{1} - 160$$

$$T_{2} = P_{1} - P_{2} - 20P_{1} + 20P_{1}$$

$$T_{3} = (Q_{3} - Q_{3} - 1) \cdot (P_{3} - 20)$$

$$= (P_{3} - P_{1} - P_{2}) \cdot (P_{3} - 20)$$

$$= P_{1} \cdot P_{1} - 10P_{1} - P_{2} + 10P_{1}$$

$$T_{3} = P_{3} + P_{1} - 10P_{1} - P_{1} + 120P_{1} + 120P_{1$$