

week 15.

T1 $p = 60 - q$

$TL = 30q$

1) $p = MC$

$\Rightarrow 60 - q = 30$

$\Rightarrow q^* = 30$

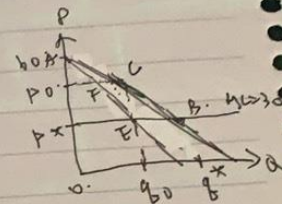
$p^* = 30$

$TR = (p \times q) = 60q - q^2$

$MA = -2q + 60$

$\Rightarrow q_0 = 15$

$\Rightarrow p_0 = 45$



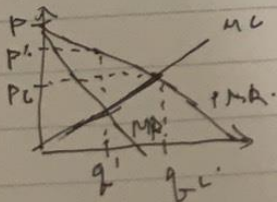
$\Rightarrow CS = 15 \times (60 - 45) \times \frac{1}{2} = 112.5$

$PS = 15 \times 15 = 225$

總利潤 = $(15 \times 30) \times \frac{1}{2} = 225$

無謂損失 = $15 \times 15 \times \frac{1}{2} = 112.5$

(2)



$CS = 0$

$PS = \frac{30 \times 30}{2} = 450$

總利潤 = 450

無謂損失: 0

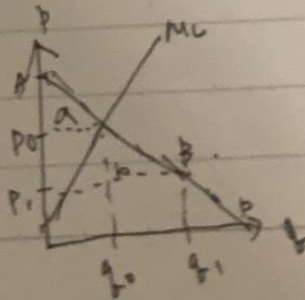
(3)

$CS = 20$

$PS = \frac{(30 + 60) \times 30}{2} = 1350$

總利潤: 1350

無謂損失: 0



(4)

