

A108260015 陳政宏 經濟=甲 week 12 bonus

$P \cdot \frac{MC}{1 - \frac{1}{E_d}}$  訂價, A 廠商  $= P = \frac{15}{1 - \frac{1}{3}} = \frac{15}{\frac{2}{3}} = 22.5$  B 廠商  $P = \frac{15}{1 - \frac{1}{5}} = \frac{15}{\frac{4}{5}} = 18.75$

4. A108260015 陳政宏 經濟=甲 week 12

(A)  $MR = 100 - 2Q = 20 = MC \Rightarrow Q^* = 40, P^* = 60, MC = \frac{60 - 20}{40} = \frac{2}{3}$

(B) 無謂損失  $= \frac{1}{2} (40 \times 40) = 800$

(C) 獨占力  $\frac{P - MC}{P} = \frac{60 - 20}{60} = \frac{2}{3}$

(D)  $MR = MC + 10$

$100 - 2Q = 30 \Rightarrow Q^* = 35, P^* = 65$

$\pi = (35 \times 65) - (30 + 20 \times 35) - (10 \times 35) = 195$

(E)  $(1 - 10\%) MR = MC \Leftrightarrow 0.9(100 - 2Q) = 20$

(F)  $\pi = 1570 - 1000 = 570$

(G)  $\pi = 1570(1 - 0.2) = 1570 \times 0.8 = 1256$

(H)  $P \cdot MC = 100 - 2Q = 20 \Rightarrow 9.8, P = 20$

$\pi = 1600 - 630 = 970$

5.  $MR = P(1 - \frac{1}{E_d})$

$\Leftrightarrow MR = 4MC(1 - \frac{1}{E_d})$

$\Leftrightarrow MC = 4MC(1 - \frac{1}{E_d})$

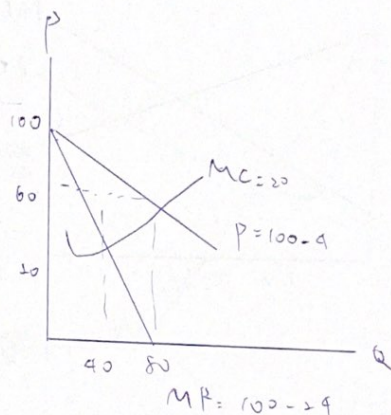
$\Leftrightarrow E_d = \frac{4}{3}$

6.  $MR = MC + t \Leftrightarrow a - 2bQ = k + t \Rightarrow Q^* = \frac{a - (k+t)}{2b}$

$P^* = a \frac{a - (k+t)}{2} = a + \frac{(k+t)}{2}$

$t = 0$

$P_0 = \frac{a+k}{2}, P^* - P_0 = \Delta P = \frac{t}{2}$



7.  $MC_A = MC_B = MR, 4Q_A = 8Q_B = 280 - 2Q_A - 2Q_B$   
 $Q_A = 40, Q_B = 20$   
 $P = 220$