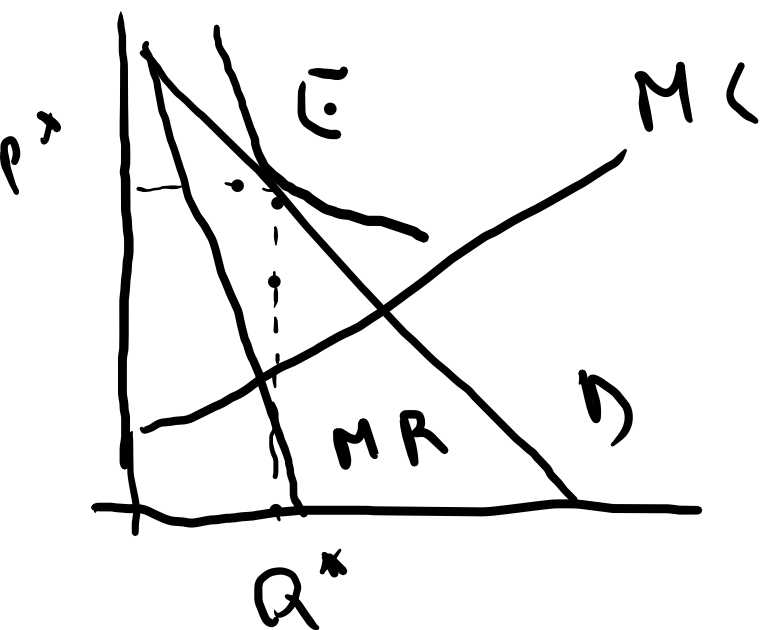


PROOF



$$\pi = P Q - c(Q) = K$$

$$\frac{dP}{dQ} = - \frac{d\pi}{dQ} \bigg/ \frac{d\pi}{dP} \quad P = f(Q)$$

$$\frac{P - c'(Q)}{Q} = f'(Q)$$

$$\frac{dy}{dx} = - \frac{\frac{\partial U}{\partial x}}{\frac{\partial U}{\partial y}}$$

$$P = f(Q)$$

$$\frac{M(-P)}{Q} = f'(Q)$$

$$\underbrace{M(-P)}_{=} + \underbrace{f'(Q)Q}_{MR}$$

$$\frac{7,5 + Q - 60 + 2Q}{Q} = -2$$

$$P = 60 - 2Q$$

$$MC = 7,5 + Q$$

$$\eta = \frac{\Delta Q/Q}{\Delta P/P} = \frac{P}{Q} \frac{\Delta Q}{\Delta P}$$
$$Q = 30 - 0,5P$$
$$\eta = -0,5 \frac{30}{10,5} \approx -1,9$$

$$-52,5 + 3Q = -2Q$$

$$Q^* = \frac{52,5}{5} = 10,5$$

$$P = 60 - 2 \cdot 10,5$$

$$39$$

FRANCO OLDRIO

(a.) $P = 250 - Q$

$TC = 120 + 10Q + Q^2$

$MC = 10 + 2Q$

$TR = PQ = 250Q - Q^2$

$MR = 250 - 2Q$

$MC(Q^*) = 130$

$10 + 2Q = 250 - 2Q$

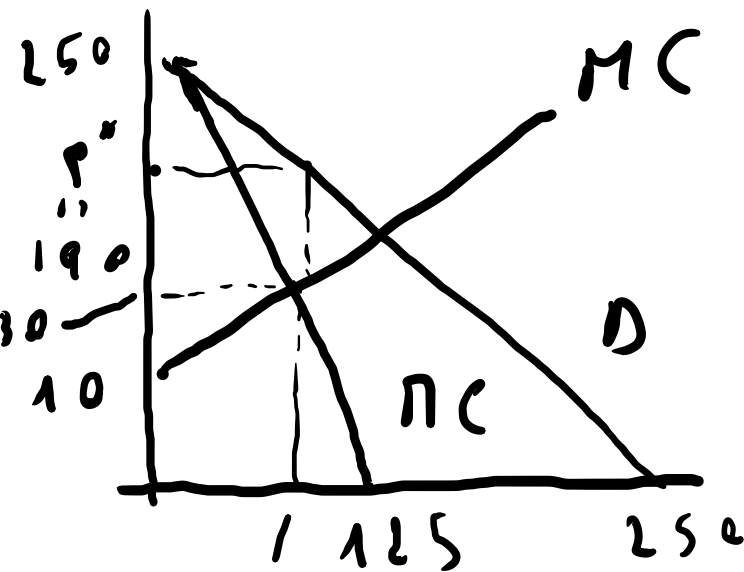
$Q^* = \frac{240}{4} = 60$

$P^* = 250 - 60$

190

$Q = 250 - P$

MARK-UP = $\frac{P - MC}{P}$



$Q^* = 60$

$M = -\frac{\Delta P}{\Delta Q} \frac{P}{Q}$

$= -1 \frac{190}{60} = -3.17$

$= \frac{190 - 130}{190} \approx 0.31$

$$\hat{\pi} = P Q - C(Q)$$

$$= 190 \cdot 60 - (120 + 10 \cdot 60 + 60^2)$$

$$= 11400 - 4320 = 7080$$

b. MARIO IUNIVU

$$P = 360 - 2,5Q$$

$$MC = 10 + 2Q$$

$$MR = 360 - 5Q$$

$$TR = PQ = 360Q - 2,5Q^2$$

$$Q = 244 - \frac{1}{2,5}P$$

$$10 + 2Q = 360 - 5Q$$

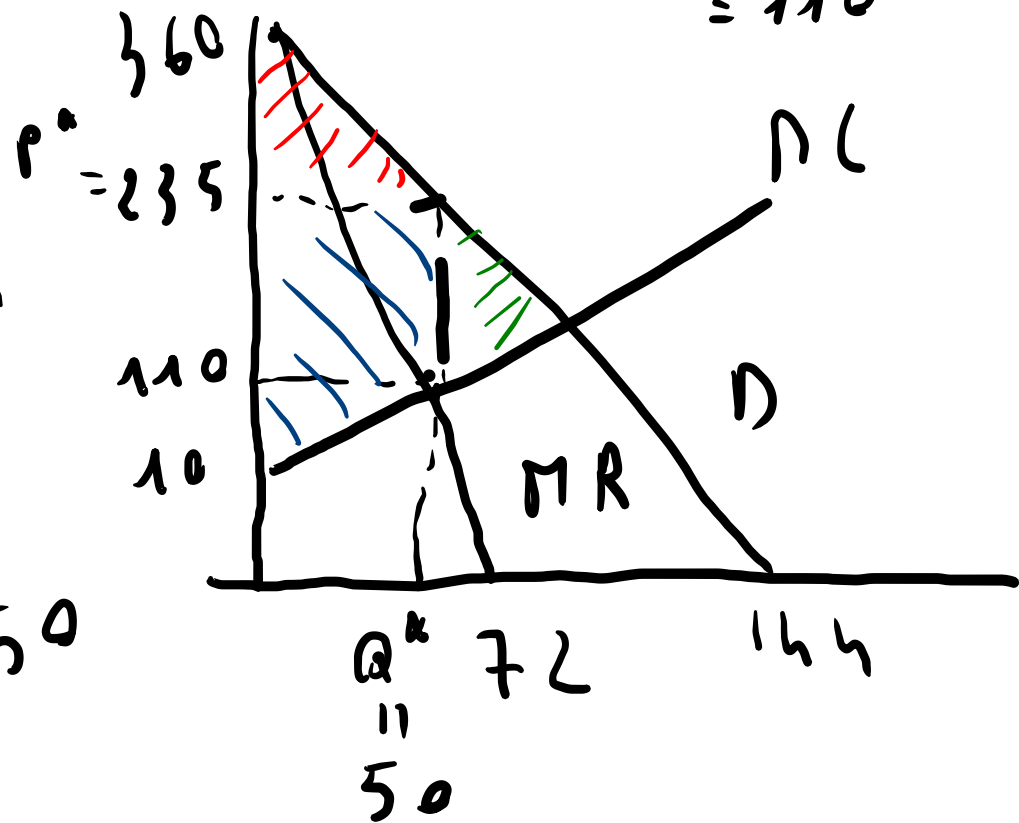
$$Q^* = \frac{350}{7} = 50$$

$$P^* = 360 - 2,5 \cdot 50$$

$$\frac{11}{235}$$

$$\eta = -\frac{2}{5} \frac{235}{50} \approx -1,8$$

$$M'(Q) = 10 + 2 \cdot 50 = 110$$



MARK-UP

$$\frac{P - M'(Q)}{P} = \frac{235 - 110}{235}$$

$$\approx 0,5$$

$$\uparrow = 235 \cdot 50 - (120 + 10 \cdot 50 + 50^2)$$

$$= 8670$$

3 TONIN?

$$Q^D = 390 - 3P$$

$$TC = 1200 + 70Q$$

Q^* , P^* , P_N ?

$$P = 130 - \frac{1}{3}Q$$

$$TR = 120Q - \frac{1}{3}Q^2$$

$$MC = MR$$

$$70 = 130 - \frac{2}{3}Q$$

$$Q^* = (130 - 70) \cdot \frac{3}{2}$$

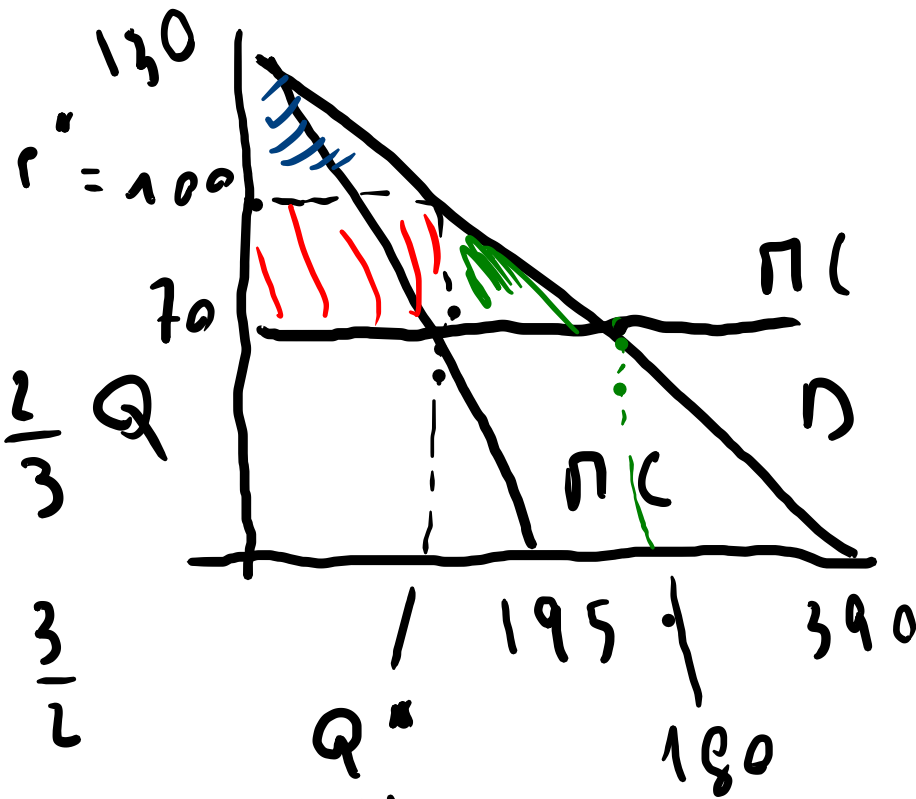
$$\parallel$$

$$90$$

$$P^* = 130 - \frac{1}{3} \cdot 90$$

$$\parallel$$

$$100$$



CONC. PERF.

$$MR = MC$$

$$130 - \frac{1}{3}Q = 70$$

$$Q^{CP} = 180$$

$$P^{CP} = 70$$

$$PN = \frac{(100 - 70)(180 - 90)}{1} = 1350$$

$$\overline{\Pi} = 100 \cdot 90 - 1200 - 70 \cdot 90 = 1500$$