

# Test Economic - Rizea Luciana G. 1112.

$$(1) UT = (y-5)(x+1)$$

def.  $x, y$ .

$$P_x = 10 \text{ u.m.}$$

$$P_y = 5 \text{ u.m.}$$

$$V = 100 \text{ lei}$$

$$V = xP_x + yP_y$$

$$U_{\text{mp } x} = \frac{\partial}{\partial x} (y-5)(x+1) = (y-5) \frac{\partial}{\partial x} (x+1)$$

$$= (y-5) \cdot 1 = y-5$$

$$U_{\text{mp } y} = \frac{\partial}{\partial y} (y-5)(x+1) = x+1 \frac{\partial}{\partial y} (y-5) = x+1$$

$$\frac{U_{\text{mp } x}}{P_x} = \frac{U_{\text{mp } y}}{P_y} \Rightarrow \frac{y-5}{10} = \frac{x+1}{5} \Rightarrow y-5 = 2x+2$$

$$\left. \begin{array}{l} y = 2x+7 \\ 2x+y = 20 \end{array} \right\} \Rightarrow 2x+2x+7 = 20 \Rightarrow 4x = 13$$

$$x = \frac{13}{4} = 3,25$$

$$y = 2 \cdot 3,25 + 7 = 6,5 + 7 = 13,5$$

②

$$P_0 = 10 \text{ um.}$$

$$P_1 = 8 \text{ um.}$$

$$Q_1 = 20\% Q_0 = 1,2 Q_0$$

$$E_{c/p} = \frac{\Delta(\%)/Q}{\Delta(\%)/P} = \frac{-\Delta Q}{Q_0} : \frac{\Delta P}{P_0} = \frac{-\Delta Q}{\Delta P} \cdot \frac{P_0}{Q_0} =$$

$$= - \frac{Q_1 - Q_0}{P_1 - P_0} \cdot \frac{P_0}{Q_0} = - \frac{1,2 Q_0 - Q_0}{8 - 10} \cdot \frac{10}{Q_0} =$$

$$= - \frac{Q_0 (1,2 - 1)}{-2} \cdot \frac{10}{Q_0} = 0,2 \cdot 5 = 1.$$

$E_{cp} = 1 \Rightarrow$  cerere cu elasticitate unitară.

③.  $CT = 2Q^2 + 20Q$

$$Q = 40 - P \Rightarrow P = 40 - Q$$

Condiția de maximizare  $C_{mp} = V_{mp}$

$$C_{mp} = CT'(Q) = 4Q + 20$$

$$V_{mp} = VT'(Q)$$

$$VT = P \cdot Q = (40 - Q)Q = 40Q - Q^2$$

$$V_{mp} = VT'(Q) = 40 - 2Q$$

$$C_{mp} = V_{mp} \Leftrightarrow 4Q + 20 = 40 - 2Q \Rightarrow 20 = 6Q \Rightarrow Q = \frac{20}{6} = 3,33.$$

$P = 40 - 3,33 = 36,67 \text{ unități} \Rightarrow$  este o piață de oligopol.

$$\begin{aligned}
 ④ \quad C_{Guv} &= 8000 \text{ u.m.} & CG \\
 EXP_{net} &= -1500 \text{ u.m.} \\
 IMP &= 3000 \text{ u.m.} \\
 C_{Consum} &= 10.000 \text{ u.m.} & CC \\
 Inv_{net} &= 4000 \text{ u.m.} & FNC \\
 Inv_{bruta} &= 5000 \text{ u.m.} & - FBC
 \end{aligned}$$

$$- EXP_{net} = EXP - IMP \Rightarrow EXP = EXP_{net} + IMP$$

$$EXP = -1500 + 3000 = 1500 \text{ u.m.}$$

$$\begin{aligned}
 - PIB &= CF + (FBCF + VS) + (EXP - IMP) = (CG + CC) + FBC + EXP_{net} \\
 &= 8000 + 10.000 + 5000 - 1500 = 21.500 \text{ u.m.}
 \end{aligned}$$

$$- Inv_{bruta} = Inv_{net} + Inv_{inlocuina} \quad (FBC = FNC + Inv_{inlocuina})$$

$$Inv_{inloc} = Inv_{bruta} - Inv_{net} = 5000 - 4000 = 1000 \text{ u.m.}$$

$$⑤ \quad M_0 = P_0$$

$$P_0 Q_0 = 370 \text{ y}_0$$

$$V_1 = 1,4 \text{ y}_0$$

$$M_1 = 3000 \text{ u.m.}$$

$$M_0 = ?$$

$$P_0 = \frac{P_0 Q_0}{Q_0}$$

$$M_1 = \frac{P_1 y_1}{v_1}$$

$$M_1 = \frac{370 y_0}{1,4 v_0} = \frac{3}{1,4} M_0 \Rightarrow 3000 = \frac{3}{1,4} M_0 \Rightarrow$$

$$\Rightarrow 1000 = \frac{1}{1,4} M_0$$

$$M_0 = 1000 \cdot 1,4 = 1400 \text{ u.u.}$$

$$(6) S_{u0} = 3000 \text{ RON}$$

$$S_{u1} = 1,1 S_{u0} \Rightarrow I_{Su} = 110\%$$

$$P_1 = 1,2 P_0 \Rightarrow Y_P = 120\%$$

$$Y_{Sk} = \frac{I_{Su}}{Y_P} \cdot 100 \Rightarrow Y_{Sk} = \frac{110}{120} \cdot 100 = 91,66\%$$

$$100 - 91,66 = 8,33 \Rightarrow \text{scade cu } 8,33\%$$