

$MRS = \frac{\Delta X_2}{\Delta X_1} = -\frac{MU_1}{MU_2}$
 $MU_1 \Delta X_1 + MU_2 \Delta X_2 = \Delta U = 0$
 $MRS = \frac{\Delta X_2}{\Delta X_1} = -\frac{MU_1}{MU_2} = -\frac{P_1}{P_2}$ (макс. 2 предела)
 $MRSD = \frac{P_1}{P_2} \quad P_2 = P_1 \cdot (MRS)$
 $U(x_1, x_2) = x_1^a x_2^b$
 $U(x_1, x_2) = x_1^a x_2^b = C$
 $x_1 = \frac{C}{P_1} \quad x_2 = \frac{C}{P_2}$
 $U = P_1 U_1 + P_2 U_2$

$A=CS$
 $A+B$ - ванов. узимем полп.
 $P = a - bQ$
 $C = \frac{a}{2} - bQ$
 $E_x = \frac{\Delta Q}{Q} \cdot \frac{P}{P} = \frac{\Delta Q}{\Delta P} \cdot \frac{P}{P}$
 $E_y = \frac{\Delta Q}{Q} \cdot \frac{P}{P} = \frac{\Delta Q}{\Delta P} \cdot \frac{P}{P}$
 $E = \frac{Q - Q_{min}}{Q} = \frac{P}{P - P_{min}}$
 $E^S = \frac{Q - Q_{min}}{Q} = \frac{P}{P - P_{min}}$

$\Delta TR = Q \Delta P + P \Delta Q + \Delta P \Delta Q$
 $MR = Q(1 - |E|) = P(1 - |E|)$
 $MR = a - 2bQ$
 $MC = a - bQ$
 $MR = MC \Rightarrow a - 2bQ = a - bQ \Rightarrow Q = 0$

$Q = a - bP \Rightarrow P = \frac{a - Q}{b}$
 $P_{max} = \frac{a}{b}$
 $Q_{min} = 0$
 $P_{min} = \frac{a - Q_{max}}{b}$
 $E = -\frac{Q}{P}$
 $E^S = \frac{Q}{P}$

$MC \text{ реперек } AVC \text{ и } AC \text{ в их миним.}$
 $P = MC = MR$
 $P = AC$
 $P = AVC$
 $P = AVC_{min}$

$MP = \frac{W}{P}$
 $MP = \frac{W}{P}$
 $MP = \frac{W}{P}$

$E_x(V) = E_x(U) + E_x(V)$
 $E_x(V) = E_x(U) + E_x(V)$

$p(q) [1 - |E(q)|] = MC(q)$
 $MR = MC$
 $MR = a - 2bq$
 $MC = a - bq$
 $a - 2bq = a - bq \Rightarrow q = 0$

$MPPL = MR \cdot MP_L$
 $E_x = n \cdot \frac{Kx^{n-1}}{Kx^n + b}$
 $P = \frac{1}{1 - |E|} = \frac{1}{1 - \frac{Q}{P}}$
 $P = \frac{P}{1 - \frac{Q}{P}} = \frac{P^2}{P - Q}$

$P = \frac{MC}{1 - |E|}$
 $P = \frac{1}{1 - |E|} \cdot MC$
 $P = \frac{1}{1 - |E|}$
 $MR = MC$
 $MR = a - 2bQ$
 $MC = a - bQ$
 $a - 2bQ = a - bQ \Rightarrow Q = 0$

$AP = \frac{TP}{Q}$
 $MP = \frac{TP}{Q}$
 $MR = MC$
 $MP = \frac{TP}{Q}$
 $MP = \frac{TP}{Q}$
 $MR = MC$
 $MP = \frac{TP}{Q}$

Ф. порт & ЛР: $y^* = y^0 + \Delta y$; $\Delta y = \Delta y^0 + \Delta y^1$; $\Delta y = \Delta y^0 + \Delta y^1$; $\Delta y = \Delta y^0 + \Delta y^1$

$Y = C + I + G + K_n$
 $S = I$
 $\Delta B = \Delta B_p + \Delta B_v$
 $\Delta B_p = -\Delta S_g$
 $S_r = I_n - X_n$
 $S = S_p + S_g + S_r$
 $S_r = -K_n$
 $Y_d = Y - T + T_k = C + S$
 $C + I = C + S$
 $I = S$
 $S = S_p + S_g + S_r$
 $S_r = -K_n$

Закон спроса
 $Y - Y^0 = -\beta(V - V^0)$
 $T = T_0 + \beta Y$
 $\tau = \tau_0 + \beta Y$

MARRU - \dots
 $K_n = g - m^* Y$
 $\Delta Y = m \cdot \Delta A$
 $\Delta A = \Delta A \cdot (1 + \theta + K_n)$

$\frac{x_1 + x_2}{2} \geq \sqrt{x_1 x_2}$
 $0 = F(x, y)$
 $y' = -\frac{F_x}{F_y}$
 $\frac{d}{dx} f(x) = f'(x)$
 $\frac{d}{dx} f(-x) = -f'(-x)$
 $f(x) + b$
 $f(x+a)$
 $f'(x) > 0$
 $f'(x) < 0$
 $f'(x) > 0$
 $f'(x) < 0$

$P_L = \frac{\sum_{i=1}^n P_i \cdot Q_i}{\sum_{i=1}^n P_i \cdot Q_i}$
 $P_R = \frac{\sum_{i=1}^n P_i \cdot Q_i}{\sum_{i=1}^n P_i \cdot Q_i}$
 $MV = PY$
 $Y = \frac{MV}{P}$
 $Y = \frac{M}{P} \cdot V$
 $M = \frac{Y \cdot P}{V}$
 $C = a + b(Y - T)$
 $MPC = \frac{\Delta C}{\Delta Y}$

$MPC = \frac{\Delta C}{\Delta Y}$
 $MPS = \frac{\Delta S}{\Delta Y}$
 $APC = \frac{C}{Y}$
 $APS = \frac{S}{Y}$

$S = a + b(Y - T)$
 $MPC = \frac{\Delta C}{\Delta Y}$
 $MPS = \frac{\Delta S}{\Delta Y}$
 $APC = \frac{C}{Y}$
 $APS = \frac{S}{Y}$
 $Y = Y^0 + \Delta Y$

SR: $Y \uparrow \rightarrow APC \downarrow$
 $Y \downarrow \rightarrow APC \uparrow$
 LR: APC \dots
 $M^s = C + D$
 $M^s = \frac{D}{R}$
 $MB = C + R$

$I_a = e - dR$
 $J = e - dR + MPI \cdot Y$
 $MPI = \frac{\Delta I}{\Delta Y}$
 $\left(\frac{M}{A}\right)^D = \dots$
 $m = \frac{MS}{MB}$
 $m = \frac{C+D}{C+R}$
 $m = \frac{C+D}{C+R}$
 $m = \frac{C+D}{C+R}$

$\sin \varphi = \frac{a}{\sqrt{a^2 + b^2}}$
 $\cos \varphi = \frac{b}{\sqrt{a^2 + b^2}}$
 $\sin(\alpha + \beta) = \sin \alpha \cos \beta + \cos \alpha \sin \beta$
 $\cos(\alpha + \beta) = \cos \alpha \cos \beta - \sin \alpha \sin \beta$
 $x_1 x_2 = \sqrt{\frac{1 + \frac{x_1}{x_2}}{1 - \frac{x_1}{x_2}}}$

Если на каждом из заводов $T(d) = 0$ и AC ...
 $\sum_{i=1}^n w_i E_i = 1$
 $E - \text{от-Рб}$

Эффективность ...
 Структура ...
 Инновации ...
 Развитие ...
 Конкуренция ...

$\frac{\Delta C}{\Delta Q} > AVC_1$
 $\frac{\Delta C}{\Delta Q} > AVC_2$
 $\frac{\Delta C}{\Delta Q} > AVC_1$
 $\frac{\Delta C}{\Delta Q} > AVC_2$