Раунонамыме дорикуми, Увиале часть рационаивант стрикций. Рормушеровна теореших a payuonceaux npaleurosois payuoreauronois Com na cyuly proemencuex pagueonaucourx enf. Pyringene buga R(x) = P(x), rge P, B : O electroquerios, шаз-ся рационаньной фией Onp 1) P(x) unovoucen u Q(x)=1 eun-n, mo may-eur уеной рауно маномой домей. 2) P(x), rge deg R L deg R maj-en mashumanoù pay-ir op-eis. Meep.: beckar payuon-e opius npegemabuerenais & buge cyu-eur yeuri payuonausa gree Hx) u npabuerenou pay gr-eg- $\frac{P_{i}(x)}{Q(x)}$ c mem me znamenem Q(x), m.e $\frac{P(x)}{Q(x)} = H(x) + \frac{P_{i}(x)}{Q(x)}$ A-bo: Rogerung P(x) ma Q(x) c oc mamman, m.e. I f(x) u I P(x) $\operatorname{deg} P_1 < \operatorname{deg} Q; \ P(x) = H(x) \bullet Q(x) + P_1(x) \Longrightarrow \frac{P(x)}{Q(x)} = H(x) + \frac{P_1(x)}{Q(x)}$ 1) $\frac{H}{(x-d)^{k}}$, nge $A \in \mathbb{R}$, $d \in \mathbb{R}$, $k \in \mathbb{N}$ 2) $\frac{Bx+C}{(x+px+q)^{m}}$, nge $B, C, P, q \in \mathbb{R}$, $p^{2}+q^{2}O$, $m \in \mathbb{N}$ \Rightarrow pay p-uueОпр пристейние рау-пе фин - фин вида meet. (Opaquomenuu pakuusuan pay-in qp-uy ma mpoeseinuue)

ryomb $\frac{P(x)}{Q(x)}$ - npab. pay. qp-us, m.e olegez degQ, a $Q(x)=Q_0$ $Q(x) = Q_0(x-d_1)^{k_1} ... (x-d_s)^{k_3} (x^2+p_1x+q_1)^{m_1} ... (x^2+p_tx+q_t)^{m_t}$ Разменен на мен. квадратичн. менопечет. змашеframent Q(x), m.e. $a_0 \neq 0$ cmapus nosop-m frament Q(x), m.e. $a_0 \neq 0$ cmapus nosop-m $d_1,...d_S$ -kee nonapro paguerrosore kopsen Q(x) reparament $k_1...k_S$ coembern-0 $k_1...k_S$ m_s $(x^2+p_jx+q_j)^{m_j}=(x-2j)^{m_j}(x-\overline{z_j})^{m_j}$ $(x-\overline{z_j})^{m_j}$ $(x-\overline{z_j})^{m_j}$ $(x-\overline{z_j})^{m_j}$ $(x-\overline{z_j})^{m_j}$ no conpience munix kopiceis Q(x) kpamm. M; Torga 3 Aty, ... Aike 4 7 Bj. ... Bjøg, Gj. ... Cjøg grue Kempox $(1 \leq i \leq S', 1 \leq j \leq t)$ $j = l_i, t$. $\frac{P(X)}{Q(X)} = \underbrace{\frac{A_{11}}{(X-d_1)}}_{+} + \underbrace{\frac{A_{12}}{(X-d_1)^2}}_{+} + \dots + \underbrace{\frac{A_{1k_1}}{(X-d_1)^{k_1}}}_{+} + \dots + \underbrace{\frac{A_{5k_6}}{(X-d_5)^{k_5}}}_{+} + \dots + \underbrace{\frac{A_$

$$\frac{+B_{11} \times + C_{11}}{(x^{2}+P_{1}x+Q_{1})^{2}} + \frac{B_{12} \times + C_{12}}{(x^{2}+P_{1}x+Q_{1})^{2}} + \dots + \frac{B_{im_{j}} \times + C_{im_{j}}}{(x^{2}+P_{1}x+Q_{1})^{m_{j}}} + \dots + \frac{B_{t_{1}} \times + C_{t_{1}}}{x^{2}+P_{t}^{2}+Q_{t}} + \frac{B_{t_{2}} \times + C_{t_{2}}}{(x^{2}+P_{t}^{2}+Q_{t}^{2})^{2}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{t}^{2})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{tm_{j}})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{(x^{2}+P_{t}^{2}\times + Q_{tm_{j}})^{m_{t}}} + \dots + \frac{B_{tm_{j}} \times + C_{tm_{j}}}{($$

P(x), deg P Zdeg Q. Ryomo L beny керень Q(x) крат-ту D-ko' (raemuruce) $x \in N$, morga $Q(x) = (x-L)^{k}Q_{1}(x)$, oleg $Q_{1}(x) = n-k$ Nz deg Q, ao = cm. nosq. Q 4 Q1 $\frac{P(x)}{Q(x)} = \frac{A_1}{x-\lambda} + \dots + \frac{A_n}{(x-\lambda)^n} + \frac{P_1(x)}{Q_1(x)}$ $\frac{P(x)}{Q(x)} = A_1(x-d) + \dots + A_{K-1}(x-d) + A_K + \frac{P_1(x)(x-d)}{Q_1(x)}, leecu$ $X=L \Rightarrow A_K = \frac{P(L)}{Q_1(L)} \Rightarrow$ $\frac{P(x)}{Q(x)} - \frac{Ax}{(x-x)^k} = \frac{P(x) - AxQ(x)}{(x-x)^k} = \frac{P_{11}(x)(x-x)}{(x-x)^k} = \frac{P_{11}(x)}{Q_1(x)} =$ deg P1 = deg P, -1 < n-1 - npal pay grun AK-1= P11(2) an-no go mes nap, noka ne neugrus Aj=Pim(L) Qi(L). $\frac{P(x)}{Q(x)} - \frac{A1}{x-d} - \dots - \frac{Ak}{(x-d)^k} = \frac{P_i(x)}{Q_i(x)}$ degP12 deg Q1 npu Takony genombre bee MOTOR agrazmarun m. e eg-16 pagreoneerus