$$f(x) = x^{h} + o_1 x^{h-1} + \dots + o_{h-1} x + 1$$
with monegative coeffs and with

n real rests

$$f(x) = (x+x_1)(x+x_2) - - (x+x_n)$$

$$f(2) = \frac{(1+1+x_1)(1+4x_2)!-..(1+4x_n)}{(1+4x_2)!-..(1+4x_n)}$$

$$= 3^n \sqrt[3]{x_1} -... \sqrt[3]{x_n}$$

Full gera nizeher of His Loley.

Horlow inequality

$$a_{11}, a_{12}, \dots, a_{1n}$$
 $a_{21}, a_{22}, \dots, a_{2n}$
 $a_{n}, a_{n}, a_{n}, \dots, a_{n}$
 $a_{n}, a_{n}, \dots, a_{n}$
 $a_{n},$

if
$$k=2$$
 $p_{1}p_{2}=2$

$$(\alpha_{11}+\alpha_{12}^{2}+\alpha_{13}^{2}+\cdots+\alpha_{1h}^{2})(\alpha_{21}^{2}+\alpha_{22}^{2}+\cdots+\alpha_{2h}^{2}) \geq (\alpha_{11}\alpha_{21}+\alpha_{12}\alpha_{21}+\cdots+\alpha_{1h}\alpha_{2h}) \geq (\alpha_{11}\alpha_{21}+\alpha_{12}\alpha_{21}+\cdots+\alpha_{1h}\alpha_{2h}) \leq (\alpha_{11}\alpha_{21}+\alpha_{12}\alpha_{21}+\cdots+\alpha_{1h}\alpha_{2h}\alpha_{2h}) \leq \sqrt{2(\alpha_{11}^{2}+\beta_{12}^{2}+\beta_{13}^{2}+$$

$$a,b,c \in \mathbb{R}_+$$
 $ab+bc+(a \ge 3$

Prove:
$$\frac{a}{\sqrt{a+b}} + \frac{b}{\sqrt{b+c}} + \frac{c}{\sqrt{c+a}} > \frac{3}{\sqrt{2}}$$

coeff
$$o_{k} = sun of all parolle products of numbers

among $x_{1} \times_{1-} \times_{1} + alen k - times$ there are

 (M_{k}) such products by $AH - GP$
 (M_{k}) $(M_{k})$$$