$f\ x\ =\ ^{x}+ax\ -x\qquad x\qquad f\ x\quad -x\ +$

a

$x=\qquad f\ x\quad -x\ +\qquad a\in$

$x>\qquad a\ \dfrac{-x\ +x+\ -\ ^{x}}{x}\qquad F\ x\ =\dfrac{-x\ +x+\ -\ ^{x}}{x}\quad F'\ x\ =\dfrac{-x\ -x-\ -x\ ^{x}+\ \ ^{x}}{x}$

$g\ x\ =-x\ -x-\ -x\ ^{x}+\ \ ^{x}\quad g'\ x\ =-x\ -\ -\ x-\ \ ^{x}\quad g''\ x\ =\ x-x\ ^{x}=x\ \ -\ ^{x}$

$<x<\qquad g''\ x\ >\qquad x>\qquad g''\ x\ <$

$g'\qquad >g'\quad >\quad g'\quad =\ -\quad <\qquad g'\ x\qquad +\infty$

$x\ \in\qquad\quad g'\ x\ \ =$

$<x<x\qquad g'\ x\ >\qquad x>x\qquad g'\ x\ <$

$g\quad =\qquad\quad <x<\qquad g\ x\ >\qquad F'\ x\ >$

$x>\qquad g\ x\ <\qquad F'\ x\ <\qquad\quad F\ x\quad =F\quad =\dfrac{\ \ -}{\ \ \ \ \ \ }\qquad a\quad \dfrac{\ \ -}{\ \ \ \ \ \ }$

$m\qquad\quad x$

$ax\ +bx+c=\qquad\quad a-b\quad +\ b-c\quad +\ c-a\qquad ma\qquad\quad m$

$$\mu=\frac{a-b\ \ +\ b-c\ \ +\ c-a}{a}\qquad a\quad b\quad c\qquad a\neq$$

$ax\ +bx+c=$ $x\ \ x$

$x\ +x\ =-\frac{b}{a}\quad x\,x\ =\frac{c}{a}\qquad \mu=\frac{a-b\ \ +\ b-c\ \ +\ c-a}{a}=\left(\ -\frac{b}{a}\right)+\left(\frac{b}{a}-\frac{c}{a}\right)+\left(\frac{c}{a}-\ \right)$

$=(\ +x\ +x\ )+(-x\ -x\ -x\,x\ )+(x\,x\ -\ )=(x\ +x\ +\ )(x\ +x\ +\ )\quad \times-\times-=-$

$x\ =x\ =--\qquad a=b=\ c\neq$ μ $-$

m $-$

$ax\ +bx+c=$

m

$a\ b\ c\in(\ \ ]\quad \lambda$

$\frac{\sqrt{\ }}{\sqrt{a+b+c}}\quad +\lambda\ \ -a\ \ -b\ \ -c$ λ

$ab+bc+ca+k\left(\frac{}{a}+\frac{}{b}+\frac{}{c}\right)$ $a\ b\ c$

$a=b=c=$ k

$ab+bc+ca+\left(\frac{}{a}+\frac{}{b}+\frac{}{c}\right)$ $a\ b\ c$

$ab+\frac{}{a}+\frac{}{b}\quad\sqrt{ab\cdot\frac{}{a}\cdot\frac{}{b}}=$ $bc+\frac{}{b}+\frac{}{c}\quad\sqrt{bc\cdot\frac{}{b}\cdot\frac{}{c}}=$

$ca+\frac{}{c}+\frac{}{a}\quad\sqrt{ca\cdot\frac{}{c}\cdot\frac{}{a}}=$ $ab+bc+ca+\left(\frac{}{a}+\frac{}{b}+\frac{}{c}\right)$

k

k $a\ b\ c\ d$

$a\ b+b\ c+c\ d+d\ a+\quad k\ a\ +b\ +c\ +d$

$a=b=c=d=$ $k\quad k$

$a\ b\ c\ d$

$a\ b+b\ c+c\ d+d\ a+\quad a\ +b\ +c\ +d$

$b\quad a\quad b+\quad b-\quad a\ -b-\quad a\ b+\quad a\ +b$

$b\ c+\quad b\ +c\quad c\ d+\quad c\ +d\quad d\ a+\quad d\ +a$

$a\ b+b\ c+c\ d+d\ a+\quad a\ +b\ +c\ +d$

k

$a\ b\ c\ d$ k