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2020   I   21 $f(x) = a^{x-} - x + a$.

1    $a =$ $y = f(x)$ $(\quad f(\;))$

2    $f(x)$ a .

^{x} x

$=$

1   —   ——   ——

$x>$ $f'\ x\ =a^{\ x\ -}-\dfrac{}{x}=$ $x\in\ \ x$ $f'\ x<$

$x\in\ x\ +\infty$ $f'\ x>$ $a^{\ x\ -}=\dfrac{}{x}$ $a+x\ -\ =-\ \ x$

$f\ x\ \ =f\ x\ =a^{\ x\ -}-\ \ x+\ \ a$

$=\dfrac{}{x}+\ \ a+x\ -\ +\ \ a$ $a-\ +\sqrt{\dfrac{}{x}\cdot x}\ =\ \ a+$

$f(x)>\ \ f(x)$

$<a<\ \ f\ \ =a+\ \ a<a<\ \ f\ \ <\ f\ x$.

a $[\ \ +\infty)$.

$1\ \ f(x)$ $f(x)$ $f(x)$

$f\ (x)$ $+\infty$ $a=\ \ <a<$

$a>$ $f'\dfrac{}{a}\ f'\ \ <\ \ f\ (x)$ x $f'\ x\ =ae^{\ x\ -}-\dfrac{}{x}=$

$f\ x\ \ =f(x\ )$ $f(x)$. a .
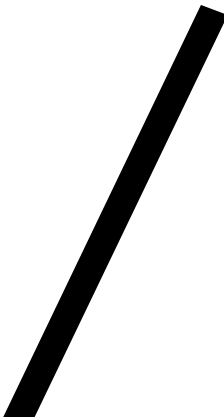
$^{a+x-}+\quad a+x-\qquad x+x=\quad^{x}+\quad x\qquad\qquad g(x)=\ ^{x}+x$

$a\qquad x-x+\qquad h(x)=\quad x-x+\qquad\qquad h(x)_{max}$

$a\qquad\qquad\qquad a$

.

$h\ x\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad y=x\ ^{x},$

$y=\ ^{x}-x\quad y=\dfrac{x}{x}\quad y=x+\quad x\quad y=x\quad x\quad y=\dfrac{x}{x}\quad.$

$3\quad g(x)=x+\quad x\qquad g(x)\qquad(\quad+\infty)\qquad\qquad g(\ )=\ .$

$f(x)\qquad x=\qquad(\ )$

$$H(x)=\frac{^x-x}{x+} \quad x\in(\ +\infty) \qquad H'(x)=\frac{(x-)\left[\ ^x(x-)\ x+\ \right]}{(x+)}$$

$$K(x)=\ ^x(x-)\ x+$$

$$K'(x)=x\ ^x+ \qquad\qquad K(x)\quad(\ +\infty) \qquad\qquad K(x)>K(\ )=$$

$$<x< \qquad H'(x)< \qquad x> \qquad H'(x)>$$

$$H(x)\quad(\ ) \qquad\qquad (\ +\infty) \qquad\qquad H(x)\quad=H(\ )\ \frac{}{}$$

$$x= \qquad y=\frac{^x\ x+(\ -\ ^x)x}{-x\ -} \qquad\qquad \frac{}{}$$

$$m \qquad\qquad \left(\ \frac{-}{}\right]$$

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[1] . —— 2019 [J].

2019(11): 16-18.

[2] J

2019(8): 55-56