

ثابت و متغیر

ثابت

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$$f(a) = \frac{\sqrt{ra^r + (m+r)a + \frac{m}{r}}}{|ra^r + (m-r)a + a^r|}$$

$a \neq 0$

$a = 0$

$$ra^r + (m-r)a + a^r = 0$$

$$ra^r + ma^r - ra^r = 0$$

$$ra^r = ra^r - ma^r$$

$$ra = r - m$$

$$m = r - ra$$

$$ra^r + (0 - ra)a + \frac{r - ra}{r} = 0$$

$$ra^r + 0 - ra^r + 1 - a = 0 \rightarrow ra^r + (ra + 1) = 0$$

$$a^r + (ra + 1) = 0$$

$$(a+r)^r = 0 \rightarrow a = -r \frac{r}{r} \rightarrow a = -\frac{r}{r} = -1$$

$$m = r$$

$$\Rightarrow \frac{\sqrt{ra^r + \frac{m}{r}}}{|ra^r + \frac{m}{r}|} = \frac{\sqrt{\frac{r}{r}}}{\left| \frac{r}{r} \right|} = \frac{\sqrt{\frac{r}{r}}}{\left| \frac{r}{r} \right|} = \frac{\sqrt{\frac{r}{r}}}{\sqrt{a}} \rightarrow \frac{\sqrt{\frac{r}{r}}}{\sqrt{a}} = \frac{r \tan b}{\sqrt{a}} \Rightarrow \tan b = \frac{\sqrt{a}}{r}$$

$$\frac{\sqrt{\frac{r}{r}}}{\sqrt{a}} = \frac{r \tan b}{\sqrt{a}} \Rightarrow \tan b = \frac{\sqrt{a}}{r}$$

$$b = \frac{r}{a}$$

$$ra^r - a + b = 0 \rightarrow a = 1 \rightarrow 0 - a + b = 0$$

[illegible]

$$\tan b = \frac{\sqrt{1 - \frac{1}{\gamma^2}}}{\frac{1}{\gamma^2}} = \sqrt{\gamma^2 - 1}$$

$$\begin{array}{l} \delta a^T - a^T + b = 0 \\ \hline a = 1 \\ \delta - a + b = 0 \\ a - b = a \end{array}$$

$$\lim \frac{n^r + a n + b}{n-1}$$

$$\left[\frac{D^{-1/2}}{2} \right] = \left[\frac{1}{2} \right] = \left[\frac{1}{2} \right]$$

$$\left. \begin{aligned} & \tan \frac{(r\alpha + 1)\pi}{r} \\ & \frac{|r\alpha' + \alpha - r|}{\alpha(1-\alpha)} \end{aligned} \right\} f(\alpha)$$

$$\frac{\alpha^r (r+1) (\alpha-1)}{\alpha (\alpha)} \xrightarrow{\alpha=2} \frac{-1}{r} = \frac{-1(v)}{r}$$

$$a \rightarrow a^+ \quad \downarrow$$

$$b \ (n-l-y)$$

$$D(\cancel{a+y}) = - \frac{1}{2}$$

$$\parallel$$

$$\rightarrow \parallel b = - \frac{1}{2}$$

$$b = - \frac{1}{2}$$

$$\frac{1}{2}$$

$$a \ b = - \frac{1}{2} \times \frac{1}{2} = - \frac{1}{4}$$

$$\frac{1}{4}$$

$$a[n+1] + b[n+[a+1]]$$

$$= a[n] + a + b[n] + b[a] + b$$

$$\xrightarrow{n \rightarrow 0^+} a + b[a] + b$$

$$\frac{a[a]}{f(a)} = \frac{a[a]}{a[a] + \cancel{a[a]} + a[a] + \cancel{a[a]}}$$

$$= \frac{a[a]}{-a[a]}$$

$$= -1$$

$$f(n) = b[n^r - an] - ra$$

$$f(n) = -ra$$

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$$\Rightarrow b = 0$$

$$\frac{a}{f(b)} = \frac{a}{-ra} = -\frac{1}{r}$$

$$f(n) = \frac{n^r + mn + n}{a - n}$$

$$n \neq a \rightarrow \text{عند } n = a$$

$$a^r + ma + n = 0$$

$$\Rightarrow \text{HOP} \Rightarrow \frac{ra + m}{-1} = \frac{ra + m}{-1} = r$$

$$\boxed{ra + m = -r}$$

$$m = -r - ra$$

$$a^r + ma + n = 0$$

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$$r_a + m = -r$$

$$\alpha + m\alpha + n = \cdot$$

$$a^T - r_a \left(\frac{1}{r_a} + n \right) = 0$$

$$1 - \alpha + \alpha = 1$$

$a = 1$

$$m = -r - r$$

$$m = -4$$

$$\mu_a r + a - r =$$

$$-1 + a$$

$$a = \frac{r}{r}$$

دوس

$$1 - r^2 a^2 = 1 - \frac{r^2}{r^2} = 0$$

$$a - 1 = -\frac{r}{r}$$

$$\sin\left(\frac{\pi}{2}\right) = 1 \rightarrow b = \frac{1}{r}$$

$$\frac{a}{b} = \frac{\frac{r}{r}}{\frac{1}{r}} = r$$

$$f(n) = \frac{|a^r + m a^{n-m-1}|}{m |a^{r-1} + |a-1|}$$

$$a \neq 1$$

$$\frac{(a-1) (n+m+1)}{|a-1| (m+1)+1} = \frac{|m+1|}{r_{m+1}} = \frac{m}{m+r}$$

$$m \leq r \rightarrow -m^r - r m - r^2 = r m^r + m$$

$$r m^r + 2m + r^2 = 0 \rightarrow \Delta < 0$$

$$\frac{m}{m+r}$$

$$a = 1$$

$$m > r \rightarrow m^r + r m + r^2 = r m^r + m$$

$$m^r - r m - r^2 = 0$$

$$(m-r)(m+1) = 0$$

$$m = r$$

$$m = -1$$

$$\lim_{a \rightarrow \frac{1}{r}} f(a) = \frac{\left(\frac{1}{r} + \frac{1}{r} + 1\right)}{\left(\frac{1}{r} \times \frac{1}{r}\right)^{r+1}} = \frac{\frac{1}{r}}{\frac{1}{r^2}} = \frac{r^2}{r} = \frac{1}{1-1+1} = 1$$

$$f(n) = \sqrt{r} \quad a | n+1 |$$

$$R - \{a\}$$

$$\rightarrow \text{given } a$$

$$Q = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \quad 1 = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$

$$Q = 1 = \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$

$$13 \text{ } 21 \text{ } 11 \text{ } (11 \text{ } 11), = 11 \rightarrow 11 \text{ } 11 \text{ } 11$$

$$\frac{1}{2} = \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4}$$

$$f(m) = \begin{cases} \frac{1}{m} & \text{if } m \text{ is prime} \\ \frac{1}{m^2} & \text{if } m \text{ is composite} \end{cases}$$

$$m \in \mathbb{N}$$

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$$m \in \mathbb{N} \rightarrow m \in \mathbb{N} \rightarrow m \in \mathbb{N} \rightarrow m \in \mathbb{N}$$

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$$(m-1)(m+1) = m^2 - 1$$

$$m \in \mathbb{N}$$

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$$f(m) = \begin{cases} \frac{1}{m} & \text{if } m \text{ is prime} \\ \frac{1}{m^2} & \text{if } m \text{ is composite} \end{cases}$$

$$f(m) = \sqrt{m} \cdot \alpha(m+1)$$

$$R = \{a\}$$

$$\rightarrow \text{proof}$$

$$\text{QED}$$

$$\frac{m}{m+r}$$

$$x = 1$$

$$\begin{aligned} m(r-r) &\rightarrow -mr, r-r = r-r \\ m^r + r-r &\rightarrow r-r \\ \text{differ } 0 \end{aligned}$$

$$m^r - r-r = r-r$$

$$(m-r)(m+1) = 0$$

$$\begin{aligned} \lim_{n \rightarrow \infty} f(n) &= \left\{ \frac{1}{r} + \frac{1}{r} + 1 \right\} = \frac{1}{r} + \frac{1}{r} = \frac{2}{r} \\ &= \frac{1}{19} = \frac{r}{19} \end{aligned}$$

$$f(n) = \frac{\sqrt{r} \cdot a |n+1|}{|n^r + (m-r)n + a^r|}$$

$$R - \{a\}$$

$$\rightarrow \text{give } a$$

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$$a(a+1) = 0 \rightarrow a = 0$$

$$f(n) = 0$$

$$\rightarrow a = -1$$

$$-1 + (m-r)(-1) + 1 = 0$$

$$-m+r = 0$$

$$\rightarrow f(n) = \frac{\sqrt{r} \cdot |a+1|}{|n^r + 1|}$$

$$\rightarrow \frac{\sqrt{r} \cdot |a+1|}{|a^r + 1|} = \frac{\sqrt{r}}{r}$$

$$f(n) = \frac{n^r + |n|}{n^r + a|n|}$$

$$= \frac{|n| (|n| + 1)}{|n| (|n| + a)} = \frac{|n| + 1}{|n| + a}$$

$$\lim_{n \rightarrow \infty} f(n) = \frac{1}{a}$$

$$\frac{1}{a} = \frac{r}{r+a}$$

$$r+a = r+a$$

$$r-r = r-r$$

$$(a-r)(a+1) = 0$$

$$\lim_{n \rightarrow \infty} f(n) = \frac{r+1}{r-1} = r$$