

Subject: (

ایرکست

Date: \_\_\_\_\_

$$\Delta \leq 0 \Rightarrow \Delta = m^2 a^2 - 9m = (m-3)^2 \Rightarrow (m-3)^2 \geq 0 \Rightarrow m \geq 3$$

$$y_1 = \frac{\sqrt{4} |a+1|}{|a^2+1|} \xrightarrow{a=0} \frac{\sqrt{4} |1|}{|1|} = 2 \quad \text{یا } \frac{\sqrt{4} |a+1|}{|a^2+1|} = a \quad \text{یا } \frac{\sqrt{4} |a+1|}{|a^2+1|} = -a$$

$$a = \frac{1}{2} \Rightarrow y_1 = \frac{\sqrt{4} |a+1|}{|a^2+1|} = \frac{\sqrt{4} |1+\frac{1}{2}|}{|\frac{1}{4}+1|} = \frac{\sqrt{4} |\frac{3}{2}|}{|\frac{5}{4}|} = \frac{2\sqrt{4} \cdot \frac{3}{2}}{\frac{5}{4}} = \frac{4\sqrt{4}}{5}$$

$$y_2 = \frac{\tan b}{1-a} \xrightarrow{a=\frac{1}{2}} = \frac{\tan b}{1-\frac{1}{2}} = 2 \tan b \Rightarrow b = \frac{\pi}{4}$$

$$a^2 - a + b \geq 0 \Rightarrow a^2 - a + b = 0 \Rightarrow a = \frac{1 \pm \sqrt{1-4b}}{2}$$

$$f(x) = \frac{x^2 + ax + b}{x-1} \Rightarrow 1 + a + b = 0 \Rightarrow a + b = -1$$

$$b = -1 - a \Rightarrow a = 1$$

$$\left[ \frac{-1 - f(1)}{1} \right] = -1$$

$$a = 1 \Rightarrow y = \tan(\pi/4) = 1$$

$$\text{if } (a+1)^2 \Rightarrow y = -1 \Rightarrow \frac{(a+1)(-1)}{a(1-a)} = -1 \Rightarrow \frac{a+1}{a} = 1 \Rightarrow a = 1$$

$$a = 0 \Rightarrow y = 0$$

$$a = 0 \Rightarrow y = \frac{1}{-1-0} = -1 \Rightarrow b = -1$$

$$f(x) = a[x+1] + b[x+a+1] = a(x+1) + b(x+a+1) =$$

$$a[x] + a + b[x] + b[a+1] = (a+b)[x] + (a+b) + b[a]$$

$$a+b \leq 2 \Rightarrow a \leq 2-b \quad \text{یا } a+b \leq 2 \Rightarrow a \leq 2-b$$

$$\Rightarrow \frac{a[a]}{f(a)} = \frac{a[a]}{b[a]} = \frac{a}{b} = 1$$

$$f(x) = b[x^r - a^r] - r a = b[x(x-a)] - r a \xrightarrow{b=0} f(x) = -r a \quad (5)$$

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

$$\lim_{x \rightarrow 0} f(x) = \lim_{x \rightarrow 0} \frac{x^r + m x^n}{a - x} \Rightarrow f(x) = \frac{(x-a)(x-a)}{(a-x)} \quad (4)$$

$$= \frac{x^r + m x^n}{a - x}$$

$f(x) \neq 0$  یا  $r$

$$m = r a$$

$$n = r a^r$$

$$\lim_{x \rightarrow a} f(x) = \frac{(x-a)(x-a)}{a-x} = (x-a) = a$$

$$\lim_{x \rightarrow 0} f(x) = f(a) = a \quad m = r$$

$$n < r \Rightarrow n - m = 1 \quad (6)$$

$$f(x) = \begin{cases} 1 - a[a] + (r a^r - 1)[a] & x \neq a \\ b \sin\left(\frac{x}{a}\right) & x = a \end{cases}$$

$$1 - a = r a^r - 1 \Rightarrow r a^r = a - r$$

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

آرکوا هم تابعی است یا نه  
یا که از این غلطی شود

$$x \neq a = \frac{1}{c} \left\{ \frac{[a]}{-1} + [a] \right\} = \frac{1}{c}$$

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

$$x = a = b \sin\left(\frac{r}{r}\right) = -b = \frac{1}{c} \quad b = \frac{1}{c} \quad \frac{a}{b} = \frac{r}{c} \quad (2)$$

$$\lim_{n \rightarrow \infty} \frac{|a-1| |a^n(m+1)|}{|a-1| (m|a+1|+1)} = \frac{|a^n(m+1)|}{m|a+1|+1} = \frac{|a^n|}{m|a+1|}$$

$$\lim_{n \rightarrow \infty} f(n) = f(1) \Rightarrow \lim_{n \rightarrow \infty} \frac{m^2 + m}{m^2 + m} = (m+1)^2 \rightarrow m=1$$

$$\lim_{n \rightarrow \infty} \frac{(m+1)^2}{m} = \frac{m}{m+1} \rightarrow m=1 \Rightarrow f(n) = \frac{|a+1|}{\varepsilon(n+1)+1} \Rightarrow m \geq \frac{1}{\varepsilon}$$

$$\lim_{n \rightarrow \infty} f(n) = \frac{1}{\varepsilon+1} \Rightarrow \frac{1}{\varepsilon+1} = \frac{1}{\varepsilon+1}$$

$$f(n) = \frac{\sqrt{n} |a+1|}{|a^n(m+1)+a|} = \frac{\sqrt{n} |a+1|}{|a^n(m+1)+a|} \rightarrow a \rightarrow -1 \Rightarrow \lim_{n \rightarrow \infty} f(n) = \frac{\sqrt{n}}{n} = \frac{1}{\sqrt{n}}$$

$$\lim_{n \rightarrow \infty} \frac{a^n |a|}{a^n |a|} = \frac{|a|}{|a|} = 1 \Rightarrow \frac{1}{a} = \frac{1}{a} \Rightarrow a = \frac{1}{a} \Rightarrow a = 1$$

$$f(n) = \frac{|a|}{|a|+1} \rightarrow \frac{1}{2}$$

$$\lim_{n \rightarrow \infty} f(n) = \frac{|a|}{|a|+1} = \frac{1}{2}$$