

Subject: (

۲. آنالیز

ایرکاست

Date: _____

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

$$y_1 = \frac{\sqrt{4} |x+1|}{\sqrt{a^2 + 1}} \xrightarrow{y_2 = x} \frac{\sqrt{4} |x+1|}{\sqrt{a^2 + 1}} = \frac{\sqrt{4} |x+1|}{\sqrt{a^2 + 1}} \Rightarrow \frac{\sqrt{4} |x+1|}{\sqrt{a^2 + 1}} = \frac{\sqrt{4} |x+1|}{\sqrt{a^2 + 1}} \Rightarrow \frac{\sqrt{4} |x+1|}{\sqrt{a^2 + 1}} = \frac{\sqrt{4} |x+1|}{\sqrt{a^2 + 1}}$$

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

$$y_2 = \tan b \xrightarrow{y_2 = x} \frac{y_2}{1-y_2} = \frac{x}{1-x} \Rightarrow \frac{x}{1-x} = \frac{x}{1-x} \Rightarrow \frac{x}{1-x} = \frac{x}{1-x}$$

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

$$\left[\frac{-3 - 2(1)}{1} \right] = -5$$

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

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

$$x = 0 \Rightarrow y = 0$$

$$x = 0 \Rightarrow y = \frac{x}{-x} = \frac{0}{0} \Rightarrow \frac{0}{0} = \frac{0}{0} \Rightarrow \frac{0}{0} = \frac{0}{0}$$

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

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

$$a+b \rightarrow a-b \leftarrow \text{تابع زوج است اما یونی است}$$

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

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

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$$\frac{a}{f(x)} = -\frac{1}{r} \quad (6)$$

$$\lim_{x \rightarrow 0} f(x) = \lim_{x \rightarrow 0} \frac{x^r + m x^n}{a - x} \Rightarrow f(x) = \frac{(x-a)(x-a)}{(a-x)} \quad (7)$$

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

$f(x) \neq 0$ اور r

$$m = -ra$$

$$n = ra^r$$

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

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

$$n = r \Rightarrow n - m = 1 \quad (8)$$

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

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

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

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

$$x = a = b \sin\left(\frac{ra}{r}\right) = -b = \frac{1}{c} \quad b = \frac{1}{c} \quad (9)$$

$$\lim_{n \rightarrow \infty} \frac{|a-1| |a^n(m+1)|}{|a-1| (m|a+1|+1)} = \frac{|a+1(m+1)|}{m|a+1|+1} = \frac{|ma^2|}{m|a+1|}$$

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

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

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

$$f(n) = \frac{\sqrt{n} |a+1|}{|a^n(m+1)+a|} = \frac{\sqrt{n} |a+1|}{|a^n + (m+1)a^n|} \rightarrow a < -1 \rightarrow \text{converges}$$

$$\lim_{n \rightarrow 0} f(n) = \lim_{n \rightarrow -1} \frac{\sqrt{n} |a+1|}{|a+1| |a^n - a+1|} = \frac{\sqrt{n}}{|a^n - a+1|} \rightarrow \frac{\sqrt{n}}{n}$$

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

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