

نام و نام خانوادگی هسپال پاسخنامه تشریحی تکلیف شماره کلاس درازدم B

$f(m) \left\{ \begin{array}{l} \sqrt{\frac{4\alpha^2 \sqrt{(m+\frac{1}{2})^2 + \frac{m}{F}}}{|2\alpha^2 \sqrt{(m+\frac{1}{2})^2 + \frac{m}{F}}|}} \xrightarrow{m \neq 9} \Delta, G(m+\frac{1}{2}) - \varepsilon(G) \frac{m}{F} / = (m+\frac{1}{2})^2 \varepsilon. \\ \xrightarrow{m \neq 9} \end{array} \right.$
 $\frac{r \text{ to } b}{\sqrt{-a}} \quad m = a \quad \rightarrow |2\alpha^2 \sqrt{(m+\frac{1}{2})^2 + \frac{m}{F}}|$
 $a \geq 0 \rightarrow \frac{r \text{ to } b}{\sqrt{-a}} \quad m = a \times$
 $a = -\frac{1}{F} \checkmark \rightarrow \frac{r \text{ to } b}{\sqrt{-a}} \rightarrow \frac{|\sqrt{(m+\frac{1}{2})^2 + \frac{m}{F}}|}{|2\alpha^2 \sqrt{(m+\frac{1}{2})^2 + \frac{m}{F}}|} \rightarrow \lim_{m \rightarrow -\frac{1}{F}} \frac{F(m+\frac{1}{2})}{2\alpha^2 \sqrt{(m+\frac{1}{2})^2 + \frac{m}{F}}} \div \text{وورد} = \frac{F \sqrt{F}}{2\alpha^2}$

[illegible]

$\lim_{n \rightarrow \infty} \frac{(n+1)^n}{n!}$ असि
 $\lim_{n \rightarrow \infty} \frac{|n^{n+1} - n|}{a(1-n)}$ $1 < n < \infty$
 $b(x - \{-n\})$ $n > a$
 $n \rightarrow \frac{v}{a} = -v < 1 < b \rightarrow b < \frac{v}{10} \rightarrow ab < \frac{v}{10}$

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

$$\xrightarrow{n \rightarrow 0} f(n) = a + b[a+1] = f(0)$$

$$\xrightarrow{n \rightarrow 1} f(n) = -b + b[a+1]$$

$$\rightarrow a + b[a+1] = -b + b[a+1] \Rightarrow \boxed{a+b=0}$$

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

$f(m) = b[m^2 - a] - 2a$
 تابع نسبت ذاتی است پس با هم فریب آید فریب b و a
 $f(m) = 2 - 2a$
 $\rightarrow \frac{a}{f(b)} \cdot \frac{a}{-2a} \left[\frac{-1}{2} \right]$

by f(m) = f(a), y, x+m

$x^{r+mq+n} \xrightarrow{x=a} a^{r+mq+n}$

$\rightarrow \varepsilon a^{r+qm+n} = 0$

$\rightarrow -r = \frac{-rm}{m} + m \rightarrow m = -y \text{ at } n=1 \rightarrow n-m \geq 1+y \mid E$

$f(a) = 0 \Rightarrow \varepsilon a^{r+qm+n} = 0$

$\rightarrow r+qm = 0 \Rightarrow a^{r+qm} = 0 \rightarrow a^{\frac{-r}{m}} = 0$

$a = 0$

$$f(n) = \begin{cases} \frac{(n^p + mn - m - 1)}{m(n^p - 1) + (n - 1)} & n \neq 1 \\ \frac{m}{m+p} & n = 1 \end{cases} \rightarrow \frac{\cancel{n^p} / (n + m + 1)}{\cancel{n^p - 1} (m(n + 1) + 1)} = \frac{(n + m + 1)}{m(n + 1) + 1}$$

$\lim_{n \rightarrow 1^+} f(n) = \lim_{n \rightarrow 1^-} f(n) = \frac{1+m}{1+m+1} = f(1) = \frac{m}{m+1} \rightarrow m^k + \varepsilon + \varepsilon n > \frac{1}{m} + m$
 $m^k - \varepsilon < 0 \quad (m - \varepsilon)(m + 1) \rightarrow \frac{m^2 \varepsilon}{m - 1 \alpha} \checkmark$
 $\lim_{n \rightarrow \frac{1}{\varepsilon}} f(n) = \frac{-a + 0}{c n + 0} \cdot \frac{\frac{1}{\varepsilon}}{\frac{1}{\varepsilon}} = \frac{v}{\lambda}$

$\sqrt{m}|am+a|$ $R=\{a\}$ $\rightarrow a^3+(m-2)a+a^2 \geq 0 \rightarrow a \geq 0$
 $(a^3+(m-2)a+a^2)$
 $a^3+m-2 \geq m-2 \geq 0 \rightarrow m \geq 2$ $a^3+(m-2)a+a^2 \geq 0 \rightarrow 1-4(m-1) \geq 0$
 $\rightarrow m \geq 2 \rightarrow a(a+1) \geq 0 \rightarrow a \geq -1$
 $\sqrt{m}|a-1|$ $z = \frac{\sqrt{m}}{m}$ $\checkmark$

$$\begin{aligned} \lim_{n \rightarrow \infty} \frac{a^{n+1} - a^n}{a^{n+1} + a^n} &= \lim_{n \rightarrow \infty} \frac{a^{n+1}(1 - \frac{1}{a})}{a^{n+1}(1 + \frac{1}{a})} = \frac{1 - \frac{1}{a}}{1 + \frac{1}{a}} = \frac{a-1}{a+1} \\ \lim_{n \rightarrow \infty} \frac{a^{n+1} - a^n}{a^{n+1} + a^n} &= \frac{a-1}{a+1} \end{aligned}$$

$$\lim_{n \rightarrow \infty} f(n) = \frac{n^k + n}{n^k + 1} = \frac{n+1}{n+1} = \frac{1+0}{1+0} = \frac{1}{1} = 1$$

۳- تابع در $x=1$ پیوسته از راست و $x=5$ پیوسته از چپ دارد!

$$f(1) = \tan \frac{\pi}{4} = -1$$

$$\lim_{x \rightarrow 1^+} \frac{|x^2 + x - 2|}{a(1-x)} = \frac{(x+2)(x-1)}{-a(1-x)} = -1 \rightarrow \frac{2}{a} = 1 \rightarrow a = 2$$

$$f(5) = b(5 - [-5]) = 1 \cdot b \quad \lim_{x \rightarrow 5^-} \frac{|25 + 5 - 2|}{3(1-x)} = -\frac{28}{12} = -\frac{7}{3}$$

$$\rightarrow b = \frac{-7}{3} \rightarrow ab = -\frac{7}{3} \times 3 = \boxed{-7}$$

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