

محسن کرمی (هرین)

۱۴۰۱ / ارتباط

" رياضي دسته بجراحت "

نوع دفعه: ۲۲۱-A

$$\sqrt{(\kappa + \sqrt{\nu})^2} \xrightarrow[\text{رسیسی}]{\text{کوچک}} \sqrt{\frac{1}{\kappa + \sqrt{\nu}} \times \frac{\kappa - \sqrt{\nu}}{\kappa - \sqrt{\nu}}} = \sqrt{\frac{\kappa - \sqrt{\nu}}{9}} \xrightarrow[\text{ضرب}]{\text{میرب}} \sqrt{\frac{1}{9}} = \sqrt[4]{2}$$

۴-۱۰۱

$$a_{10} = \omega \xrightarrow[\text{قریبیت}]{\text{برای}} d = \frac{1-\omega}{\omega-1} = \frac{-r}{\omega} \Rightarrow a_{14} = a_1 + 14d = \frac{v}{\omega} = 1/x$$

۴-۱۰۴

$$a_1 + r d = 1 \rightarrow a_1 + r \left( -\frac{r}{\omega} \right) = 1 \rightarrow a_1 = \frac{1+r}{\omega}$$

$$\rightarrow \text{از سوم عبور نشود} \quad \begin{array}{l} \oplus \text{ مجموع} \\ \text{د汉انه با} \\ \text{ناتیجہ} \end{array} \quad \begin{array}{c} \uparrow \\ \text{نکل} \end{array} \quad y = ax^2 + (r+ra)x$$

۱-۱۰۳

$$\textcircled{I} \quad a > 0 \quad \textcircled{II} \quad S > 0 \rightarrow \frac{-b}{a} > 0 \Rightarrow b < 0 \rightarrow r+ra < 0 \rightarrow a < -\frac{r}{r+a}$$

$$\textcircled{I}, \textcircled{II} \rightarrow \text{انتراک نظریہ} \rightarrow \text{همچو طبقاً} \quad \text{انتراک}$$

۴-۱۰۴

$$\frac{4-2x}{3x+1} \geq 0 \xrightarrow{\text{برقلم}} \begin{array}{c} x \\ \hline -1 \\ \infty \end{array} \quad \begin{array}{c} -1 \\ \infty \\ + \\ - \end{array} \rightarrow -\frac{1}{3} < x \leq 2 \xrightarrow{x^2}$$

$$\Rightarrow -1 < 3x \leq 4 \xrightarrow{\text{جز معنی}} [3x] = -1 \quad \text{اعضو و مقدار دار}$$

٣-١٥

$$\text{باب } f \rightarrow f(n) = b - \overbrace{an}^{a=0} \rightarrow f(n) = b \quad \text{باب}$$

$$g(n) = C - \underbrace{(nb - n)}_{n(b-1)} \rightarrow g(n) = C \quad \text{باب}$$

$$\begin{aligned} f+g &= \Delta \rightarrow b+C=\Delta \\ b &= 1 \rightarrow 1+C=\Delta \\ C &= \kappa \end{aligned}$$

$$b \times C = 1 \times \kappa = \boxed{4}$$

$$\begin{aligned} f(n) \xrightarrow{\text{باب}} y &= \kappa(n+r) - (n+r)^r \rightarrow y = \kappa n + \kappa r - n^r - r^n \\ y &= \kappa - n^r \end{aligned}$$

٤-١٥٤

برهان

$$\kappa - n^r = \kappa n - n^r \rightarrow \kappa = \kappa n \rightarrow \frac{n=1}{\boxed{y=r}} \quad \text{مقدار} = \sqrt{r+r} = \sqrt{10}$$

٤-١٥٥

$$\frac{\alpha}{r^2} \Rightarrow \frac{1}{r^2} = \frac{1}{\alpha} = \frac{\kappa}{\mu} \rightarrow \alpha = \frac{\kappa}{\mu} \rightarrow \alpha = \pm \frac{\kappa}{\mu}$$

$$\text{ex. } f_\alpha = \begin{cases} S = \frac{1}{\mu} = \frac{\alpha}{\mu} & \alpha = 1 \\ S = -\frac{1}{\mu} = \frac{\alpha}{\mu} & \alpha = -1 \end{cases} \quad \text{احتلاف} = \boxed{14}$$

٤-١٥٦

$$\rightarrow \frac{\sqrt{n+1} - \sqrt{n-1} - \sqrt{n-1} - \sqrt{n+1}}{n - (n-1)} = \frac{n-1}{\sqrt{n-1}} \quad \begin{array}{l} \text{رسازی و} \\ \text{طريق راصن} \end{array}$$

$$\frac{-\sqrt{n-1} \times \sqrt{n+1}}{10-n} \neq \frac{n-1}{\sqrt{n-1}} \rightarrow -\sqrt{n-1} \sqrt{n+1} = (n-1)(1-n)$$

$$-\sqrt{n+1} = 1 - n \xrightarrow{\text{باب}} \kappa n + \kappa = n^r - r \cdot n + 1 \quad \text{باب}$$

$$n^r - r \kappa n + \kappa = 0$$

$$\Delta > 0 \quad S > 0 \quad P > 0 \rightarrow \text{متسلسل متر}$$

٢-١٥

$$\text{بررس نزدیکی} \rightarrow \text{متریک} \rightarrow \left( \frac{\Delta}{\lambda}, \frac{1}{r} \right) \xrightarrow{\mathcal{F}^{-1}} \left( \frac{1}{r}, \frac{\Delta}{\lambda} \right) \rightarrow \left( \frac{1}{r} \right)^2 - \frac{1}{r^2} + 1 = \frac{1}{\lambda} - \frac{\varepsilon}{\lambda} + \frac{1}{\lambda} = \frac{2}{\lambda}$$

٢-١٦

$$g(F(\eta)) = \Delta \eta + 1 \rightarrow g(\eta) = \Delta \left( \frac{\eta}{r} \right) + 1$$

$$g(\eta - v) = \frac{\Delta(\eta - v)}{\varepsilon} + 1 \rightarrow \min = 1$$

صفر  $\rightarrow$  مقدار

٣-١٧

$$\text{ضریب} \rightarrow \text{اکیرا نزولی} \rightarrow k - q < 0 \rightarrow k < q \rightarrow 1k < 3 \rightarrow 2k < 3$$

مجموع جواب دارد  $\rightarrow -2, -1, 0, 1, 2$

٣-١٨

$$-\frac{\pi}{p} < \eta < \frac{\pi}{p} \rightarrow \text{متغیر} \rightarrow -\frac{\pi}{\varepsilon} < -\eta < \frac{\pi}{\varepsilon} \rightarrow 0 < \frac{\pi}{\varepsilon} - \eta < \frac{\pi}{p} \rightarrow 1 \text{ نامن}$$

$$\tan(\frac{\pi}{\varepsilon} - \eta) > 0 \rightarrow \frac{1-m}{1+m} > 0 \rightarrow + - + - \rightarrow m < 1$$

نادر = چون

٣-١٩

$$\sin \eta + \cos \eta = \frac{1}{\mu} \rightarrow \sin \eta + \sin \eta + \cos \eta = \frac{1}{\mu}$$

$$\sin \eta + 1 = \frac{1}{\mu} \rightarrow \sin \eta = \frac{1}{\mu} \rightarrow \cos \eta = \frac{1}{\mu}$$

$$\tan \eta = \frac{\sin \eta}{\cos \eta} = \frac{\frac{1}{\mu}}{\frac{1}{\mu}} = \frac{1}{\mu}$$

٤ - ١١٣

$\tan \theta \Rightarrow$  ارتفاع كل خط / 4 (مستوى بابا زمان)

$$a = r$$

بابا زمان بابا زمان  $\rightarrow$  بابا زمان - ٢ و نصف دور (كان زمان) او ده (مستوى بابا زمان)

$$Q = r^2 \text{ دارما زمان رفع (مستوى بابا زمان)}$$

٤ - ١١٤

$$\lambda_{GS\alpha} - \tan^2 \alpha = 1 \rightarrow \lambda_{GS\alpha} = 1 + \tan^2 \alpha$$

$$\lambda_{GS\alpha} = \frac{1}{\cos^2 \alpha} \rightarrow \lambda_{GS\alpha} = 1 \rightarrow \boxed{\cos \alpha = \frac{1}{r}}$$



. مستوى بابا زمان  $\rightarrow$   $2\pi \times 90^\circ$  زمان.

٤ - ١١٤

$$\log_r^{11} = m \rightarrow \log_r^{r \times r} = m \rightarrow \frac{1}{r} (\log_r^r + \log_r^r) = m$$

$$\rightarrow \log_r^r + r \log_r^r = rm \rightarrow \log_r^r = \frac{rm-1}{r}$$

$$\log_r^{11} = \log_r^r + \log_r^m = 1 + \log_r^r = 1 + \frac{1}{r} \log_r^r$$

$$1 + \frac{1}{r} \left( \frac{rm-1}{r} \right) = \frac{r}{r} + \frac{rm-1}{r} = \frac{r(m+1)}{r}$$

٤ - ١١٥

$$f(1) = 0 \rightarrow a + b \left(\frac{1}{r}\right)^0 = 0 \rightarrow \underline{\underline{a + b = 0}}$$

$$f(-1) = -1 = f(-1) = -1 \rightarrow a + b \left(\frac{1}{r}\right)^{-1} = -1 \rightarrow \underline{\underline{ar + rb = -1}}$$

$$\begin{aligned} & \text{نحوه جمع} \rightarrow b = -1 \rightarrow \\ & \text{نحوه جمع} \rightarrow a = 1 \rightarrow a - b = 1 - (-1) = \underline{\underline{2}} \end{aligned}$$

K-111

$$S^r = \frac{\sum (x_i - \bar{x})^r}{n} = \frac{1 (\pm 1)^r + 0}{9} = \frac{1}{9}$$

$$S = \sqrt{S^r} = \sqrt{\frac{1}{9}} = \frac{\sqrt{1}}{\mu} = \frac{1}{\mu}$$

أربعة درجات من الحرارة  $\bar{x}$  و  $Q_r$  و  $\bar{x}$  و  $Q_r$  (مقدار الحرارة) 1-119

مقدار المدعي درجة حرارة  $\bar{x} = Q_r$  و درجة حرارة  $\bar{x}$

$$\bar{x}_{n+1} - (Q_r + r) = \boxed{\bar{x} - Q_r} \xrightarrow{\bar{x} = Q_r} \text{صف}$$

$$\lim_{n \rightarrow i^+} \frac{g_n - \varepsilon}{g_n - [g_n]} = \frac{0}{0} \xrightarrow{\text{Hopital}} \lim_{n \rightarrow i^+} \frac{g_n}{g_n} = \frac{1}{1} = \boxed{\frac{1}{\mu}}$$

K-110

$$\lim_{n \rightarrow i^+} (\varepsilon - [g_n]) g_n = 1 \rightarrow (k-1) g(i^+) = 1 \rightarrow \lim_{n \rightarrow i^+} g_n = p$$

N-111

$$\lim_{n \rightarrow i^+} \frac{\sqrt{a} |g_n - 1|}{|g_n - 1|} = p = \lim_{n \rightarrow i^+} \sqrt{a} = p \rightarrow \sqrt{a} = p \rightarrow \boxed{a = \varepsilon}$$

$$\lim_{n \rightarrow i^+} \frac{\sqrt{an^2 + bn + c}}{|g_n - 1|} = \lim_{n \rightarrow i^+} \frac{\sqrt{a + b + c}}{|g_n - 1|} = \frac{c}{p} \rightarrow \sqrt{a} (g_n - 1)^2 = \sqrt{a} |g_n - 1|$$

$$\lim_{n \rightarrow \infty} g_n = \lim_{n \rightarrow \infty} \frac{\sqrt{an^2 + bn + c}}{|g_n - 1|} \xrightarrow{n \rightarrow \infty} \frac{\sqrt{a} |g_n - 1|}{|g_n - 1|} = \sqrt{a} \approx p$$

1-١٤٤

$$\lim_{n \rightarrow \infty} \frac{n \left( \sqrt{\frac{1+n+1}{n}} \right)^n}{n} = \left( \sqrt{\frac{1}{n}} \right)^n = \boxed{\frac{1}{n^{\frac{1}{2}}}}$$

میں سے  $\rightarrow m = \frac{\mu}{\varepsilon}$   $\Rightarrow y'(1) = \frac{\mu}{\varepsilon}$   $\xrightarrow{\text{امام}}$

۴-۱۴۴

$$y' = \frac{(r_n + m)(n + r) - (1)(n^r + m n + r)}{(n + r)^r}$$

$$y'(1) = \frac{(r + m)(\varepsilon) - (1)(r + m)}{(1 + r)^r} = \frac{\mu}{\varepsilon} \rightarrow r m = r \varepsilon \rightarrow \boxed{m = r}$$

$$y(1) = \frac{r + m}{\varepsilon} \xrightarrow{m=r} \frac{\varepsilon}{\varepsilon} = \boxed{1}$$

۴-۱۴۵

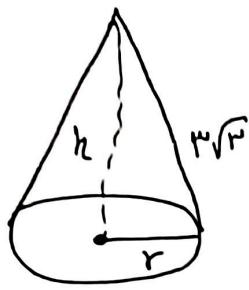
منسوب  $(\log f) \rightarrow f(0) = \varepsilon \rightarrow C = \varepsilon$   
 $f'(0) = 0 \rightarrow r n^r + r a n + b \xrightarrow{n=0} 0 \rightarrow b = 0$

$$y' = r n^r + r a n + 0 = n(r n + r a) \xrightarrow{n=0} r a = 0 \rightarrow a = 0$$

$$y\left(-\frac{r a}{\mu}\right) = 0 \rightarrow \left(\frac{-r a}{\mu}\right)^r + a\left(\frac{-r a}{\mu}\right)^r + \varepsilon = 0$$

$$\frac{-r a}{\mu} + \frac{\varepsilon a^r}{\mu} + \varepsilon = 0 \rightarrow a = -\mu \rightarrow \boxed{a = -\mu}$$

منسوب  $\rightarrow n = \frac{-r a}{\mu} = \frac{-r x - r}{\mu} = \boxed{r}$



$$V = \frac{1}{3} \pi r^2 h$$

$$r^2 + h^2 = 2V \rightarrow V = \frac{1}{3} \pi (h^2 - r^2) \times h$$

$$V' = \dots \rightarrow \pi h^2 - \pi r^2 h = \dots \rightarrow h = \sqrt{\dots}$$

P-143

$$\textcircled{1} \quad \begin{array}{l} \text{نیزین بار} \\ \text{راضی باش} \end{array} \rightarrow \begin{array}{l} \text{نیزین نیست} \\ \text{زمین هست} \end{array} \rightarrow \begin{array}{l} \text{از سایر اندیشه ها} \\ \text{نیزین نیست} \end{array} \quad \left( \begin{matrix} K \\ \mu \end{matrix} \right) = \textcircled{4}$$

$$\textcircled{2} \quad \begin{array}{l} \text{راضی باش} \end{array} \rightarrow \begin{array}{l} \text{نیزین بار} \\ \text{نیزین نیست} \end{array} \rightarrow \begin{array}{l} \text{از سایر اندیشه ها} \\ \text{نیزین نیست} \end{array} \quad \left( \begin{matrix} K \\ \mu \end{matrix} \right) = \textcircled{3}$$

$$P(\text{فرمی}) = \frac{1}{100} \quad P(\text{میتواند}) = \frac{1}{10} \rightarrow P(\text{میتواند}) = \frac{1}{10} \times \frac{1}{10} = \frac{1}{100} = 1\% \quad \underline{K-144}$$

$$\begin{array}{l} AB \\ BC \end{array} \quad \left\{ \begin{array}{l} y + 2n = V \\ 2y - Vn = -19 \end{array} \right. \quad \xrightarrow{\text{1}-\text{2}} \quad \left\{ \begin{array}{l} -y - 3n = -18 \\ 2y - Vn = -19 \end{array} \right. \quad \underline{1-18}$$

$$-11n = -19 \rightarrow n = 1 \quad \boxed{n=1} \quad \boxed{y=1}$$

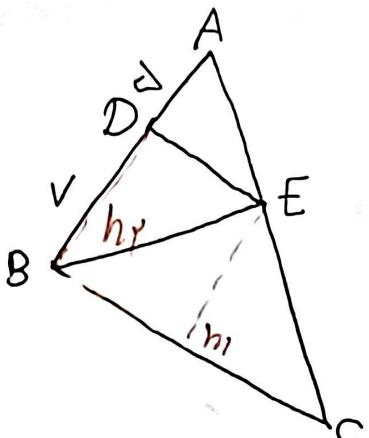
AC; B مصلح

$$S(191)$$

$$2y - 19n - 19 = 0$$

$$BH = \frac{|c_{x1} - w \times w - 19|}{\sqrt{c^2 + (-w)^2}}$$

$$= \frac{19}{\sqrt{c^2 + (-w)^2}}$$



$$\frac{AD}{AB} = \frac{DE}{BC} \rightarrow \frac{DE}{BC} = \frac{2}{12}$$

K-149

$$\hookrightarrow S_{\text{BEC}} \rightarrow \frac{S_{\text{BEC}}}{S_{\text{DEB}}} = \frac{\frac{1}{2}BC \times h_1}{\frac{1}{2}DE \times h_2} = \frac{12}{2} = \frac{6}{1} = \boxed{6}$$

(١٠) زاوية حرف (ب) ٤٥° ٢-١٤٠

$$C = \sqrt{12 + 9} = 15$$

$\left. \begin{array}{l} \alpha = b + c \\ \alpha = 12 + 9 \end{array} \right\} \rightarrow \alpha = 21$

مقدار قطر الدائرة  $\Rightarrow b = 9$

$$e = \frac{C}{\alpha} = \frac{15}{21} = \frac{5}{7} \quad \boxed{5/7}$$



↙ mohsen\_karami24

۸۶۱

دنبال شونده

۹۷۱

دنبال کننده

۲۴

پست



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