

1200

سلي

Σ

129

$$((a+b)^r)^r \times ((a-b)^r)^r = ((a^r-b^r)^r)^r = (a^{2r}+b^{2r}-2a^r b^r)^r$$

$$\left((\sqrt{5}+2)^r + (\sqrt{5}-2)^r - 2(\sqrt{5}-2)^r (\sqrt{5}+2)^r \right)^r$$

$$= (5+2+5-2-2\sqrt{5})^r = (2\sqrt{5}-2\sqrt{5})^r = 2(1-2\sqrt{5})^{r/2} \sqrt{5}$$

$\sqrt{5} s t$

Σ 125

$$\left(\left(t^r + \frac{1}{t^r} + 1 \right) (t^r - 1) + r t \right) \times t^r$$

$$(t^{2r} + 1 + t^r) (t^r - 1) + r t^{2r}$$

$$t^{2r} - t^{2r} + t^{2r} - t^{2r} + t^{2r} - 1 + r t^{2r} \rightarrow t^{2r} - r t^{2r} - 1 s.$$

$$t^{2r} s a \rightarrow a - r a - 1 s a \rightarrow S s - \frac{b}{a} s r$$

$$r + n - a = 0 \Rightarrow S s - 1 \Rightarrow a_1 + a_r s - 1 \rightarrow a_{r+1} s a_r \rightarrow a_{r+1} = -a_r$$

$$\frac{1}{(-a_r)^r} + \frac{1}{-a_r^r} s - \left(\frac{1}{a_r^r} + \frac{1}{a_{r+1}^r} \right) s - \frac{a_1 + a_r}{a_1 a_r} s - \left(\frac{S^r - r p S}{p^r} \right) = \frac{-19}{120}$$

Σ 9m

Σ 129

$$19 \times \sum_{r=0}^r a_{2r}^r \times a_{2r+1}^r \times a_{2r+2}^r \times a_{2r+3}^r \times a_{2r+4}^r$$

$$\Rightarrow \frac{1}{19} \times \frac{\sum_{r=0}^r r_{2r+1}}{\sum_{r=0}^r r_{2r}} = \frac{1}{19} \times \frac{\sum_{r=0}^r (r \sum_{q=0}^q r_q)}{\sum_{r=0}^r (r a_{r/2})} = \frac{(9+2\sqrt{5})}{19}$$

$$\rightarrow \sum_{r=0}^r \frac{r}{1r} \rightarrow \frac{a r a s - 1 r a}{a r a} \rightarrow a r \frac{a}{2} s - 1 r \frac{a}{2} \rightarrow \sum_{r=0}^r \frac{a}{r} s \frac{r - \sqrt{r}}{2}$$

Dr. M. Hosseini Nami

۱۲۰۰ نمره

$$\frac{2\alpha - a\alpha}{\frac{1}{\alpha}}$$

$$\alpha \approx \frac{1}{2}$$

$$\frac{1}{\alpha}$$

$$2\alpha - \frac{1}{\alpha}$$

$$a\alpha - \frac{1}{\alpha}$$

۱۳۰

$$\frac{2\alpha - \frac{1}{\alpha} - \frac{1}{\alpha} + \frac{1}{\alpha}}{1 - \frac{1}{\alpha}} = \frac{1.054}{1.78}$$

$$1 - 2\alpha - 2\alpha a\alpha \leq 1 \Rightarrow 2\alpha + 2\alpha a\alpha \leq 0$$

$$2\alpha(1 + a\alpha) \leq 0 \Rightarrow 2\alpha \leq 0 \text{ و } a\alpha \leq 0 \text{ و } a\alpha \leq -1$$

$$a\alpha \leq -1 \Rightarrow \alpha \leq -\frac{1}{a}$$

$$a\alpha \leq -1 \Rightarrow \alpha \leq -\frac{1}{a}$$

$$a\alpha \leq -1 \Rightarrow \alpha \leq -\frac{1}{a}$$

$$a\alpha \leq -1 \Rightarrow \alpha \leq -\frac{1}{a}$$

$$a = \sqrt{y+3} - \sqrt{y-3} \Rightarrow a^2 = y+3 + y-3 - 2\sqrt{y^2-9}$$

$$\Rightarrow a^2 = 2y \Rightarrow 2y \leq 2y - 2\sqrt{y^2-9} \Rightarrow y = \sqrt{y^2-9}$$

$$y \geq 3, a \leq \sqrt{9} \Rightarrow \sqrt{y^2-9} \leq \sqrt{9+9} \leq \sqrt{18}$$

Dr. M. Hosseini Nami

۱۲۰۰

$$r^2 (1 + r + r^2 + r^3 + r^4 + r^5 + r^6)$$

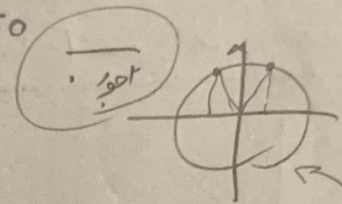
$$r^2 \left(\frac{1}{2} + \frac{1}{r} + 1 + r + r^2 + r^3 + r^4 \right)$$

$$s \left(\frac{r}{r} \right) \propto \frac{r_0 \varepsilon}{10 + \frac{r}{2}} \propto \delta r$$

$$\left| \frac{r}{r} \right| \propto \frac{q}{\varepsilon} \rightarrow r \propto 2$$

$$r |R_2| \rightarrow \sin^0 \rightarrow r \left| \frac{2(2 - \frac{r}{r})}{r} \right|$$

$$\Rightarrow r |Cot| = \frac{r}{r} \Rightarrow |Cot| = g_r^r - g_r^r \Rightarrow |Cot| \propto \delta r \checkmark$$



$$t - \frac{r}{t} = 1 \rightarrow t^2 - r = t \rightarrow t^2 - t - r = 0 \quad \begin{matrix} t_{s2} \\ t_{s1} \end{matrix}$$

$$\rightarrow g_y \propto 1 \rightarrow \boxed{\dot{y} = y}$$

$$\left(\sqrt{\frac{a}{2+1}} + 1 - \sqrt{\frac{a}{a^2} - \frac{2}{a^2+1}} \right) \rightarrow \sqrt{1+1} \propto \sqrt{r}$$

$$\left[\frac{1}{r} - \frac{r}{r} \right] \propto \left[\frac{1}{r} - \frac{r}{r} \right] \propto \left[\frac{1}{r} - \frac{r}{r} \right] \propto \left[\frac{1}{r} - \frac{r}{r} \right]$$

$$y \propto 2 + \sqrt{y-1} \rightarrow \frac{y}{y-1} \rightarrow r \propto 2 + \sqrt{y-1} \rightarrow r-2 \propto 2 + \sqrt{y-1}$$

$$\Rightarrow r-2 \propto 2 + \sqrt{y-1} \rightarrow r \propto 4 + \sqrt{y-1} \rightarrow g(y) \propto 2 \propto 2 + \sqrt{y-1}$$

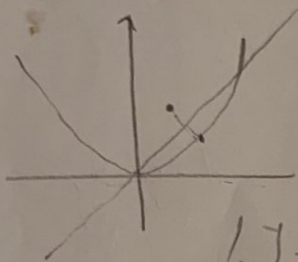
Dr. M. Hosseini Nami

$$\begin{cases} 1-u^2 & -1 \leq u \leq 1 & 1 \\ 1-u^2 & u \geq 1 \text{ or } u \leq -1 & -1 \\ 1-u^2 & u \geq \pm 1 & 0 \end{cases}$$

$$\begin{array}{ccc} + & & - \\ | & \neq & | \\ + & & + \\ - & \neq & - \end{array}$$

۱) سید صادق قدس، سید اسحاق قدس، سید شمس قدس ۲۰

$$\leftarrow 2^r \times \frac{|2^r - \varepsilon|}{2^r - 1}$$



y_{s+2} و y'_{s+2} و y_{s+1}

$$\rightarrow 2s \frac{1}{f}, \gamma s \frac{1}{\Sigma} \gamma s 2.4 \text{ lb}$$

فاصله از صف

$$\frac{15-2}{\sqrt{r}} \cdot \frac{1}{\sqrt{c}} \cdot \frac{\sqrt{r}}{1}$$

$$AA' \propto \frac{J_r}{\lambda} \alpha r_s \frac{J_p}{s}$$

$$L(g_n) \rightarrow \text{for } L(g_n) = L(r) \leq ((\Sigma n)^r + 1)' \leq (g_n^{r+1})' \\ = |r n| \Rightarrow L(r) \leq g_n$$

$$g'_{\text{ms}}(x^{\text{T}}-1)^{-\frac{1}{p}} = -\frac{1}{p} x^{\text{T}} x (x^{\text{T}}-1)^{-\frac{p+1}{p}} \cdot \frac{2}{\frac{1}{\sqrt{p}}} = -\sqrt{p}$$

$$\Rightarrow \frac{-1 \sqrt{2} \times 92}{-121 \sqrt{2}} \quad \underline{52}$$

۳۱۵۵

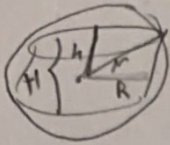
$$\left\{ \begin{array}{l} a_1^r + b_1 + c \sim \geq K \rightarrow a_1^r + b_1 + \bar{c} = r a_1 K + r b_1, b = r a_1 - r a_1 K \\ r a_1 + b \sim < K \rightarrow K^r + r K - r K^r + 1 \leq r K + \varepsilon - \varepsilon K \end{array} \right.$$

$$\rightarrow A \rightarrow r$$

$$\rightarrow 1$$

Dr. M. Hosseini Nami

نقطه 1200



$$2R \times H \quad H = 2h$$

$$r^2 = R^2 + h^2 \quad 32 = R^2 + h^2$$

$$\Rightarrow 2R \sqrt{32 - R^2} \times 2h \rightarrow \text{مشتق} = 0 \rightarrow 64h - h^2 = 0 \rightarrow \begin{matrix} -6x \\ 0 \\ 6x \end{matrix}$$

$$h = 8, H = 16, R = 8 \rightarrow \text{مساحت} = 2 \times 8 \times 16 = 256$$

استفاده از این نکته که برای max بودن $h = R$...

$$\frac{\text{قبولی در آزمون}}{\text{قبولی}} = \frac{110}{9} = \frac{17}{11}$$

$$ax^2 + bx + c \rightarrow S = -\frac{b}{a}, P = -\frac{c}{a}$$

$$\Rightarrow -\frac{b}{a} + \frac{c}{a} = 2 \rightarrow \boxed{c - b = 2a}$$

$a=3$	$c=4$	$b=2$	$c-b=2$	$a=3$	$c=4$	$b=2$	$c-b=2$
$a=4$	$c=6$	$b=2$	$c-b=4$	$a=4$	$c=6$	$b=2$	$c-b=4$
$a=5$	$c=8$	$b=3$	$c-b=5$	$a=5$	$c=8$	$b=3$	$c-b=5$

$a=3$	$c=4$	$b=2$	$c-b=2$
$a=4$	$c=6$	$b=2$	$c-b=4$
$a=5$	$c=8$	$b=3$	$c-b=5$

14 حرف

$$12 \times 2 = 24$$

$$12 + 12 + 9 + 20 + 8 = 61$$

تقسیم بر 5 بقیه دو رقم است. 5 بخش پذیر نیست. 12, 24, 32, 42

$$\begin{matrix} 61 \div 5 \rightarrow 12 \text{ بقیه } 1 \\ 64 \div 5 \rightarrow 12 \text{ بقیه } 4 \\ 74 \div 5 \rightarrow 14 \text{ بقیه } 4 \\ 84 \div 5 \rightarrow 16 \text{ بقیه } 4 \end{matrix}$$

$$\frac{64}{325} = \frac{1}{5}$$

Dr. M. Hosseini Nami

۳۱۵۱

$$\frac{-1+9+r}{\sqrt{1.}} = \sqrt{1.} \Rightarrow y+1 = -\frac{1}{e}(e^{1.}) \rightarrow e y + e + 1 =$$

$$\frac{1 \cdot \sqrt{1}}{\sqrt{1}} = \sqrt{1} \rightarrow r(\sqrt{1} + r\sqrt{1}) \leq 9\sqrt{1}$$

$$\frac{v}{c} = \frac{\sqrt{r_0}}{c} \Rightarrow \frac{v}{c} = \frac{\sqrt{r_0}}{c} \Rightarrow \frac{v}{c} = \frac{\sqrt{r_0}}{c} \Rightarrow \frac{v}{c} = \frac{\sqrt{r_0}}{c}$$

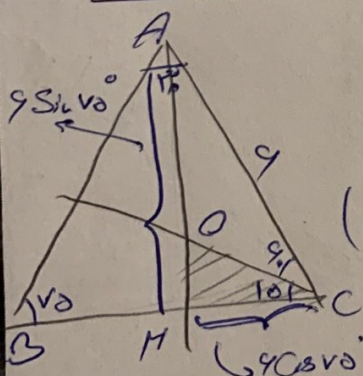
$$\frac{3\alpha - \beta - \alpha}{\sqrt{1.}} = \frac{\sqrt{9.}}{2} \Rightarrow 3\alpha - \beta = 5\% \quad \text{فرزین ۲ صفت معینه}$$

$$\begin{array}{l} x^2 + y^2 + r_2 = 3 \\ x^2 + y^2 + r_1 = 2 \end{array} \xrightarrow{\text{تفریق}} \begin{array}{l} 2x - 2y = 0 \Rightarrow x = y \end{array}$$

$$\frac{y^r}{y+a-n} = \frac{2}{2+y} = \frac{n+1}{y+a+1}$$

$$2x + 2y + y = 2y + 2x + 2 \Rightarrow n = 2$$

$$\rightarrow y_{s1} \rightarrow y_{-1n} \quad s1 - q \quad s - 21$$



$$S_{\text{CHV}} = S_{\text{ABH}} \times \frac{d}{\sqrt{4\pi}} = \frac{9}{\sqrt{4\pi}}$$

$$\rightarrow \left(\frac{r_{vo}}{r_{ro}} \right)^2 \times \left(\frac{t_{vo}}{t_{ro}} \right)^2 \times S_{cor} = S_{ABH}$$

$$S_{ABN} = \frac{q^2 v_{20} \chi C_{uvd}}{r} \approx q^2 \cdot 10. = 2,0$$

~~Dr. M. Hosseini Nami~~