

$$\frac{r}{-1} = \frac{-a}{1} \Rightarrow a = r$$

$$1^{st} \text{ case: } y = x^c + rx - r = 1 \Rightarrow x^c + rx - r = 1 \Rightarrow \begin{cases} x_1 = 1 \\ x_2 = -r \end{cases}$$

$$2^{nd} \text{ case: } y = -(x-1)(x+r) + 1 = -x^2 - rx + x + r + 1 = -x^2 - rx + x + r + 1 \Rightarrow b = r$$

$$|ax^2 + vx + 1| < 0 \Rightarrow \frac{-1 \pm \sqrt{v^2 - 4a}}{2a} < x < \frac{-1 \mp \sqrt{v^2 - 4a}}{2a}$$

$$\frac{-v_0}{2a} = \frac{1 \pm \sqrt{v^2 - 4a}}{2a} > -\frac{r}{2a} = \frac{1}{2a}$$

$$\Rightarrow \frac{-1 \pm \sqrt{v^2 - 4a}}{2a} < x < -r$$

$$\left| \frac{x-1}{r} - 1 \right| > r < \frac{x-r}{r} > r \Rightarrow x > r$$

$$\frac{x-r}{r} < -r \Rightarrow x < -r$$

$$b - a = -r + \frac{1 \pm \sqrt{v^2 - 4a}}{2a} = \frac{d}{r}$$

$$\Rightarrow \text{if } f \Rightarrow m = n = 0$$

$$\rightarrow f(x) = k$$

$$(m, n-1) = (0, k) \Rightarrow k = n - 1 = -1$$

$$\Rightarrow f(k) = 1$$

$$\text{if } f \Rightarrow f(x) = x$$

$$g(x) = \frac{1}{x-a} \Rightarrow |g(x)| = r = \left| \frac{1}{x-a} \right| \Rightarrow r = \frac{1}{|x|}$$

$$\Rightarrow x = \frac{\sqrt{r}}{r} \Rightarrow \frac{1}{\left| \frac{\sqrt{r}}{r} - a \right|} = \frac{1}{\frac{\sqrt{r}}{r}} + r = r + \sqrt{r} \Rightarrow \left| \frac{\sqrt{r}}{r} - a \right| = \frac{1}{r + \sqrt{r}} = \frac{r - \sqrt{r}}{r}$$

$$\left\{ \begin{aligned} \frac{\sqrt{r}}{r} - a &= 1 - \frac{\sqrt{r}}{r} \Rightarrow a = \sqrt{r} - 1 \\ \frac{\sqrt{r}}{r} - a &= \frac{\sqrt{r}}{r} - 1 \Rightarrow a = 1 \end{aligned} \right.$$

$$\Rightarrow 1 - \sqrt{r}$$

سوال 115

$$\alpha\beta^r + \alpha^r\beta = \alpha\beta^r \cdot \alpha^r\beta \xrightarrow{\div \alpha\beta} \alpha + \beta = \alpha^r\beta^r$$

$$\Rightarrow S = \rho^r \Rightarrow \frac{b}{a} = \left(\frac{a}{b}\right)^r \Rightarrow a = \frac{-C^r}{b} = \frac{-14}{-1} = 14$$

$$\left. \begin{array}{l} r - \alpha > 0 \\ \alpha - r > 0 \end{array} \right\} \Rightarrow \alpha = r$$

جواب ندارد  $\sqrt{r} = \sqrt{r} - \sqrt{r} \times$

سوال 114

$$y = (\sqrt{x} - 1)^r \xrightarrow{x > 1} \sqrt{y} = \sqrt{x} - 1 \Rightarrow \sqrt{x} = \sqrt{y} + 1$$

سوال 113

$$g(x) = f^{-1}(x) = (\sqrt{x} + 1)^r$$

$$f(g(1)) = g(1) = 9$$

$\alpha$	-	0	+	+
$\log \frac{x}{f}$	X		+	0
$f$	X		+	0

$$\Rightarrow D_f = (0, 1) \supseteq$$

سوال 118

در 2 هیچ جوابی ندارد

$$\frac{\sin \alpha}{\cos \alpha} = r \Rightarrow \tan \alpha = r \Rightarrow \cos \alpha = \frac{1}{1 + \tan^2 \alpha} = \frac{1}{1 + r^2}$$

$\cos \alpha < 0$   
 $\Rightarrow \cos \alpha = \frac{-\sqrt{\Delta}}{\Delta}$

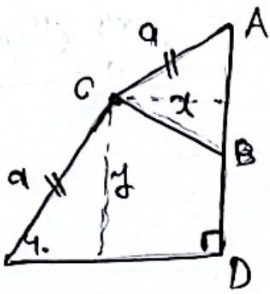
سوال 119

نسبت

$$\frac{-rm}{m^2 - 1} = \tan 45^\circ = \sqrt{r} \Rightarrow \sqrt{r} m^2 + rm - \sqrt{r} = 0$$

سوال 120

$$\hookrightarrow |m_1 - m_2| = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{r^2 + 4r}}{\sqrt{r}} = \frac{r}{\sqrt{r}}$$



$$\frac{1}{r} \sin 40^\circ \times \Sigma \Delta \times a = \sqrt{12} \sqrt{r} \rightarrow a = 4$$

$$\begin{cases} x = a \sin 40^\circ = 4\sqrt{3} \\ y = a \sin 40^\circ = 4\sqrt{3} \end{cases} \xrightarrow{\text{مطلوب}} C_D = 4\sqrt{3} \sqrt{r} = 4\sqrt{12}$$

$$\text{مثال ۱: } \frac{\cos x}{1 + \sin x} = \frac{1 - \sin x}{\cos x}$$

$$\text{مثال ۲: } \frac{\cos x}{1 + \sin x} = \frac{1 + \sin x}{\cos x}$$

$$\Rightarrow \frac{1 - \sin x}{\cos x} = \frac{1 + \sin x}{\cos x}$$

$$\sin x = 0$$

$$x = k\pi$$

$$\text{مجموعه جواب } = \pi$$

$$\log \frac{m}{n} = a \Rightarrow \frac{\log m}{\log n} = a$$

$$b = \log \frac{m^n}{m n} = \frac{n \log m + \log n}{\log m - \log n} = \frac{n(a+1)}{a-1} = 1 + \frac{a}{a-1} = 4 \rightarrow [b] = 1$$

سوال ۶

مجموعه جواب

$$\Rightarrow \text{مجموعه } \bar{x} \rightarrow 99999, 99, \dots, \bar{x} = 99$$

$$\hookrightarrow 6^r = \frac{1 + e^r}{e} = \frac{1}{e}$$

$$C_{\min} = \frac{6}{x} = \frac{\frac{1}{e}}{99} = \frac{\sqrt{e}}{99} = \frac{\sqrt{e}}{\Sigma \Delta \sqrt{e}} = \frac{1}{1 \sqrt{e}}$$

$$|z| = 1 \Rightarrow a - a + b \leq 0 \rightarrow a - b \leq 0$$

$$|z| = 1 \Rightarrow 1 + a + b \leq 0 \rightarrow a + b \leq -1 \Rightarrow \begin{cases} a = p \\ b = -p \end{cases}$$

$$\left[ \frac{b - pa}{p} \right] = \left[ \frac{-p - p}{p} \right] = -2$$

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$$x=1 \quad \lim_{x \rightarrow 1} \frac{\tan^{-1} x}{x-1} = \lim_{x \rightarrow 1} \frac{x+x-1}{x(1-x)} \Rightarrow \frac{1}{1} = 1 \Rightarrow a=1$$

سوال 124

$$x=2 \quad \lim_{x \rightarrow 2} \frac{2x}{x(x-1)} = b(a - (-a)) \Rightarrow 10b = \frac{4}{1} \Rightarrow b = \frac{4}{10}$$

$$ab = \frac{4}{10} = 0.4$$

$$a \cos \frac{\pi}{4} - \sin \frac{\pi}{4} = 0 \Rightarrow \frac{a}{\sqrt{2}} = \frac{1}{\sqrt{2}} \Rightarrow a = 1$$

سوال 124

مربع 0

بعض >

$$\hookrightarrow \sqrt{2} \frac{\pi}{4} + b > 0 \Rightarrow b > -\frac{\pi}{\sqrt{2}} = -1.11$$

b بعضیوں کے لیے > -1

$$f'(x) = \frac{1}{\sqrt{x}} + \frac{-x}{x\sqrt{x}} = 0 \Rightarrow \sqrt{x} = c\sqrt{x}$$

سوال 128

$$f\left(\frac{a}{4}\right) = \sqrt{\frac{a}{4}} + \sqrt{\frac{4a}{4}} = \frac{\sqrt{a}}{2} + \sqrt{a}$$

$$a - 2x \leq \epsilon x \Rightarrow x \leq \frac{a}{4}$$

$$f(0) = \sqrt{a}$$

$$f\left(\frac{a}{4}\right) = \sqrt{\frac{a}{4}}$$

$$\frac{\sqrt{a}}{2} \leq \sqrt{a} \Rightarrow a \leq \epsilon$$

$$d: y = -\frac{1}{2}x + \frac{9}{2}$$

سوال 129

$$g(x) = \sqrt{x} \left( -\frac{x}{2} + \frac{9}{2} \right) = -\frac{x^{\frac{3}{2}}}{2} + \frac{9}{2}x^{\frac{1}{2}}$$

$$\Rightarrow g'(x) = -\frac{3}{4}x^{\frac{1}{2}} + \frac{9}{4}x^{-\frac{1}{2}}$$

$$x = -1 \Rightarrow \frac{1}{\sqrt{2}} + \frac{9}{\sqrt{2}} = \frac{10}{\sqrt{2}}$$

$$P(\text{بعضی} = 10) = \frac{1}{n} \Rightarrow n = 12$$

$$P = \frac{10}{12} \times \frac{9}{12} \times \frac{8}{12} = \frac{10}{91}$$

A : سب (ب)  $\bar{A}$ B : سب (ب)  $\bar{B}$ 

$$\Rightarrow \begin{cases} P(A) = \frac{1}{2} \\ P(B) = \frac{1}{2} \\ P(B|A) = \frac{1}{2} \end{cases} \Rightarrow P(A \cap B) = \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

$$P(A \cup B) = \frac{1}{2} + \frac{1}{2} - \frac{1}{4} = \frac{4+4-1}{4} = \frac{7}{4}$$

$$P = \frac{14}{20} \times \frac{5}{14} + \frac{10}{20} + \frac{4}{10} + \frac{15}{20} \times \frac{5}{12} = \frac{5+4+8}{20} = \frac{1}{4}$$

$$\triangle ADE \sim \triangle ARC \Rightarrow \frac{AD}{AB} = \frac{AE}{AC}$$

$$\frac{r}{2r+1} = \frac{r}{12} \Rightarrow r(2r+1) = 12$$

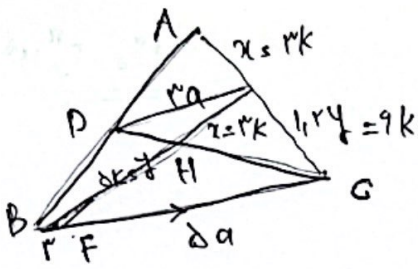
$$\Rightarrow r = 2$$

$$\text{سب (ب) : } a = \frac{1}{a} \Rightarrow a^2 = 1$$

$$\begin{cases} a < 1 : y \leq x, y \leq x-1 \quad \checkmark \quad (1, 0) \\ a = -1 : y \leq -x+1, y \leq -x-1 \quad \times \end{cases}$$

$$\begin{cases} \text{سب (ب) : } a = \frac{1}{\sqrt{r}} \\ \text{سب (ب) : } a = \frac{1}{\sqrt{r}} \end{cases}$$

$$\Rightarrow \text{سب (ب) : } \sqrt{cd} = \frac{1}{\sqrt{r}} = \frac{\sqrt{r}}{r} \Rightarrow \frac{\sqrt{r}}{\sqrt{r}} \times \frac{1}{\sqrt{r}} = \frac{1}{\sqrt{r}}$$

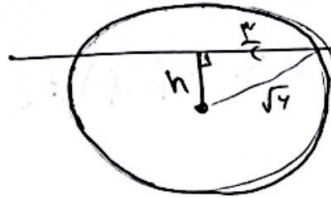


$$\frac{r_a}{r+da} = \frac{rk}{rk} = \frac{1}{r}$$

$$\Rightarrow a = \frac{r}{2} = 0.5r$$

$$\Rightarrow BC = 4\sqrt{r}$$

$$\begin{cases} O(r, -1) \\ R = \sqrt{4} \end{cases}$$



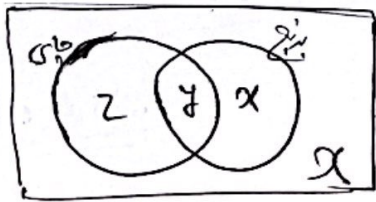
$$h = \sqrt{4 - \frac{r^2}{2}} = \frac{\sqrt{10}}{r}$$

$$\frac{|-r+r-a|}{\sqrt{r^2+r^2}} = \frac{\sqrt{10}}{r} \Rightarrow |a| = \frac{2\sqrt{10}}{r} \Rightarrow a = \pm \frac{2\sqrt{r}}{r}$$

$$|a| = \sqrt{r}$$

$$a^{\frac{1}{2}} = 2\sqrt{a} \Rightarrow 2\sqrt{a} = 1 \Rightarrow \frac{1}{a} = 2\sqrt{r}$$

$$\frac{r\sqrt{r}-r}{1+\sqrt{r}} \times \frac{\sqrt{r}-1}{\sqrt{r}-1} = \frac{r(\sqrt{r}-1)^2}{r} = \frac{r(2-\sqrt{r})}{r} = 2-\sqrt{r}$$



$$x+y = 200$$

$$\begin{cases} x+y+z = 200 \\ y+z = 120 \end{cases} \Rightarrow \begin{cases} x \leq 100 \\ x \leq y \end{cases}$$

$$\Rightarrow y = 200 - 40 = 160$$

$$\Rightarrow z = 200 - 160 = 40$$

$$+sd \begin{pmatrix} a = br \\ a = bv \end{pmatrix} \Rightarrow d'$$

$$+sd \begin{pmatrix} a = b_1 a \\ a = b_2 a \end{pmatrix} \Rightarrow d'$$

$$\begin{aligned} & \lambda^{-\frac{c}{2m}} \times \lambda^{-n} \times \lambda^{-m} \times \lambda^{-\frac{c}{2m}} \left. \vphantom{\lambda^{-\frac{c}{2m}}} \right\} \frac{1}{\lambda^c} \\ \Rightarrow & \lambda^{-\frac{c}{2m} - n - m - \frac{c}{2m}} \left. \vphantom{\lambda^{-\frac{c}{2m}}} \right\} \lambda^{-c} \Rightarrow \lambda^{-c-m-n} \left. \vphantom{\lambda^{-\frac{c}{2m}}} \right\} \lambda^{-1} \\ \Rightarrow & -c-m-n > -1 \Rightarrow m+n < c \xrightarrow{\text{max}} m^w + n^c = c^2 + 1 \leq 9 \end{aligned}$$

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