

$$\frac{2 \times \frac{1}{3} \times 2}{2 \times \frac{1}{3} \times 2 \times 2} = \frac{2}{8} = \frac{1}{4}$$

سوال 111

سوال 1

1 2 3 (1, 2, 3) متوسط
 4 5 6 ... 17 (در این کلاس) متوسط
 18 ... 39
 40 ... 120
 121 ... 343

$\bar{x} = \frac{4 \times 17}{2} = 34$

112

$a_1 d^2 = \sqrt{a_1 a^3} \Rightarrow a_1 d = 1$
 $a_1 d^3 = 2a \Rightarrow d^3 = 2 \Rightarrow d = \sqrt[3]{2} \Rightarrow a_1 = \frac{1}{\sqrt[3]{2}}$

113

$(\sqrt{x+a} - \sqrt{x-a}) (\sqrt{x+a} + \sqrt{x-a}) = a + \epsilon$
 $\frac{a + \epsilon}{2} \Rightarrow \frac{a}{2}$

114

$2a^2 + \frac{m}{c}a + C < 1 \Rightarrow a = \frac{1}{2} \Rightarrow \frac{1}{2} + \frac{m}{c} + C = 1$
 $2a^2 + \frac{m}{c}a + C - 1 < 0 \Rightarrow (0, \frac{1}{2})$

$C = \frac{1}{2}$

سوال 1

$$(0, 2) \rightarrow 1 - \log_c(-b) = 2 \Rightarrow \log_c(-b) = -1 \quad (114)$$

$$(-1, a, 0) \rightarrow -\frac{m}{c}a + r = \frac{1}{c} \rightarrow a = 1$$

(115) \sim لڙيٽه ۳

(116) \sim لڙيٽه

$$a + \frac{m}{c}a - 1 = 0 \Rightarrow b = -2, c = \frac{1}{c}$$

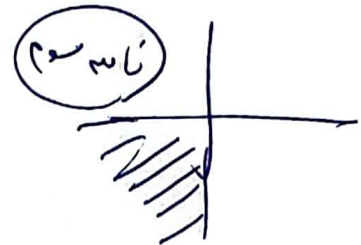
$$y = \frac{x}{a + a|x|} \Rightarrow f(-\frac{m}{c}) = -\frac{1}{a} \Rightarrow a = 3$$

(117) \sim لڙيٽه ۳

$$\frac{1}{|\cos \alpha|} - \frac{\sin \alpha}{\cos \alpha} = \frac{1 + \sin \alpha}{|\cos \alpha|} \rightarrow \cos \alpha < 0$$

(118) \sim آيسڪ

$$\frac{|\sin \alpha|}{\cos \alpha} = \frac{-\sin \alpha}{\cos \alpha} \rightarrow \sin \alpha < 0$$



$$r \cdot d' = d^r + d^{r'} \Rightarrow d' > d$$

$$\frac{A-B}{r} = \beta - \alpha = \frac{\pi}{c} - r\alpha$$

$$\tan(r\alpha) = \frac{r + r\sqrt{r}}{1 + (r + r\sqrt{r})} = \frac{1}{\sqrt{r}}$$

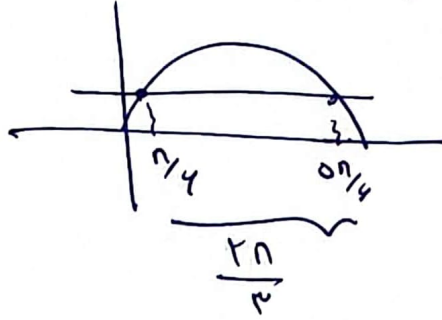


$$1 - r \sin u = r \sin u - 1$$

$$0 = r \sin u + r \sin u \Rightarrow r$$

$$\sin u = \frac{1}{r} \Rightarrow -r$$

X ✓



$$f(u) = \frac{1}{r} - \sin\left(\frac{ru}{a}\right) \rightarrow T = \frac{2\pi}{\left|\frac{r}{a}\right|} = 2\pi \left|\frac{a}{r}\right|$$

$$y = \cos(au) = T = \frac{2\pi}{|a|} \Rightarrow 4\pi$$

$$\frac{1}{\pi r} + \frac{1}{-1} = \frac{r}{\pi r} - 1$$

$$f(u) \begin{cases} -\frac{1}{r} & u > 0 \\ \frac{1}{r} & u < 0 \end{cases}$$

$$\lim_{u \rightarrow \pi^-} \frac{f(u)}{\sin u} = -\infty \Rightarrow f(\pi^-) < 0 \Rightarrow \frac{f(\pi)}{\sin \pi} = \pm \infty$$

$$\left[\frac{ru}{\pi}\right] = r = \left[\pi\right] - r = -1$$

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

$$f(n) = (a+b)[n] + b \xrightarrow{\text{Simplification}} a+b=0 \Rightarrow f(n) = b$$

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

$$y = \frac{1}{\mu} u + \frac{\epsilon}{\mu}$$

(125)

$$f'(u) = \frac{a}{\sqrt{2\pi} \sigma} = \frac{1}{\sqrt{2}}$$

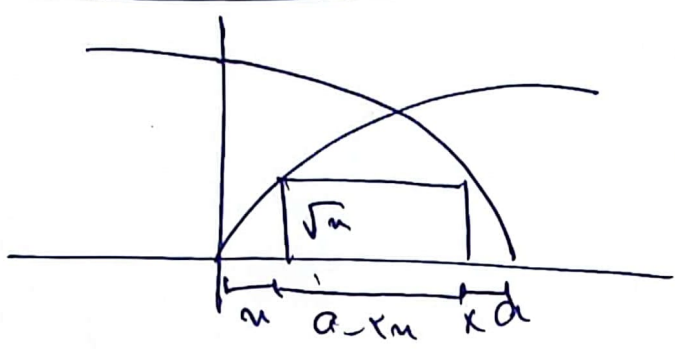
$$\sqrt{2\pi} \sigma = \frac{u + \epsilon}{\mu}$$

$$X = \frac{9a - \epsilon}{\mu} \Rightarrow$$

حدسہ
تذکرہ

$$\frac{a}{\mu} = \frac{X + \epsilon}{9}$$

فہمی فتویٰ مس



$$S = \sqrt{n} (a - \mu)$$

(124)

$$X = \frac{0 \times 1 + \frac{a}{\epsilon} + \frac{1}{\epsilon}}{1 + \frac{1}{\epsilon}} = \frac{\frac{a}{\epsilon}}{\frac{\epsilon + 1}{\epsilon}} = \frac{a}{\epsilon + 1}$$

$$S = \sqrt{\frac{a}{\epsilon} \times \frac{\epsilon a}{\epsilon}} = \sqrt{a}$$

ت

(a = \mu)

$$a, \mu, \sigma \rightarrow \bar{X} = \frac{\mu a + \mu}{\mu} = a + 1$$

(127)

$$\sigma^2 = \frac{1 + (a-1)^2 + (a-1)^2}{\mu} = \mu \Rightarrow a = 4 - \mu$$

$$f(x) = f(1, r, c, \epsilon)$$

(128)

$$\frac{1}{\epsilon} \left(\frac{9}{\epsilon} \right) \times \omega = 4\mu$$

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$$\frac{\mu_0}{\mu_4} = \left(\frac{5}{4}\right)$$

آسان
تفادروست

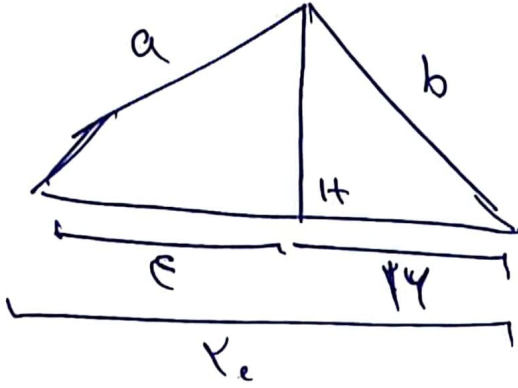
129

$$P(A) = 0.14$$

$$P(B) = 0.16 \Rightarrow$$

$$0.14 + 0.16 - 2 \times 0.12 \times 0.16 = 0.14 \times 0.16 = 0.0224$$

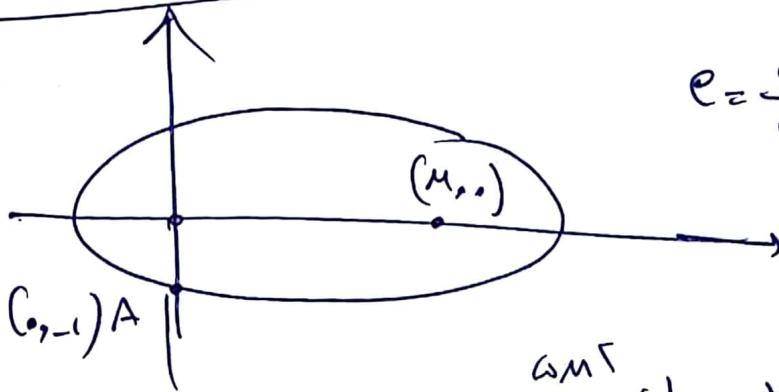
130



$$a^2 = 8^2 + 14^2 \rightarrow a = 17$$

$$b^2 = 12^2 + 14^2 \rightarrow b = 18$$

133



$$e = \frac{c}{a} = \frac{r}{\sqrt{aM}} \Rightarrow a = \frac{\sqrt{aM}}{e}$$

سواء

$$\frac{aM^2}{r} + 1 - \sqrt{aM} = M^2 + 1 \Rightarrow M = 5\sqrt{5}$$

135

$$1 - 2n^2 = -2n \rightarrow n = 1, -1/2$$

توان

137

$$\frac{f'(n)}{n - f^{-1}(n)} \Rightarrow$$

$$\frac{-1/n}{n} = -1/n^2$$

138

نوع