

آیندہ کے لیے

(1) $\frac{a}{r}$ کی قیمت معلوم کریں

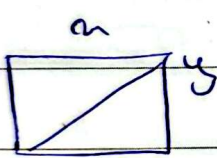
نیچے دیے گئے

$$\frac{g'}{s} = ? \quad \frac{\sqrt{5}+1}{r}$$

$$\frac{db}{ds} = \frac{a}{r} \quad (1) \quad \frac{db'}{ds^3} = \frac{1+\sqrt{5}}{r} \quad (2)$$

$$\frac{n}{y} = \frac{a}{r} \quad \frac{s'}{s} = \frac{n'by}{nxy} \rightarrow \frac{r+r\sqrt{5}}{r}$$

$$\frac{n'}{n} = \frac{r+r\sqrt{5}}{a}$$



$$n^2 = r^2 + y^2 \quad \left(\frac{n}{y}\right)^2 = ? \quad (2)$$

$$\frac{\sqrt{r^2 + y^2}}{n} = \frac{1+\sqrt{5}}{r}$$

$$\frac{n^2 + y^2}{n^2} = \frac{1+\sqrt{5} + r\sqrt{5}}{r} \rightarrow \frac{n^2 + y^2}{n^2} = \frac{r+r\sqrt{5}}{r} \rightarrow r n^2 + y^2 = (r+r\sqrt{5}) n^2$$

$$\rightarrow (1+\sqrt{5}) n^2 = r y^2 \rightarrow \left(\frac{n}{y}\right)^2 = \frac{r}{1+\sqrt{5}} = \frac{r(1-\sqrt{5})}{1-5} = \frac{r-r\sqrt{5}}{-4}$$

$$r a + \sqrt{r a^2 + r a} = r \quad \frac{a+1}{a} = ? \quad (3)$$

$$\sqrt{r a^2 + r a} = r - r a$$

$$r \text{ میٹھے } \rightarrow r a^2 + r a = r a^2 + r - 1 r a$$

$$\frac{\frac{r}{a} + 1}{\frac{r}{a}} = \frac{a}{r}$$

$$r a^2 - 1 r a + r \rightarrow (a - \frac{1}{a}) (r a - r)$$

$$r \text{ میٹھے } \leftarrow a = r \leftarrow a = \frac{1}{r} \rightarrow a = \frac{r}{r} \checkmark$$

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$$\frac{\sqrt{n+1}}{\sqrt{n-1}+r} - \frac{\sqrt{n+1}}{r-\sqrt{n-1}} = \frac{n-1}{\sqrt{n-1}}$$

(1)

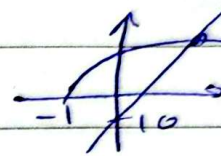
3-2-10

$$K \rightarrow 0 \rightarrow 1-n$$

$$1-n \rightarrow 0 \rightarrow K+1$$

$$\frac{n+1+r\sqrt{n+1}-n+1-r\sqrt{n+1}}{n-1-a} = \frac{n+1}{\sqrt{n-1}} \rightarrow \frac{-r\sqrt{n+1}}{n-1-a}$$

$$\frac{n-1}{\sqrt{n-1}} \rightarrow r\sqrt{n+1} = n-10$$



$$\frac{1}{\sqrt{r-n}+r} = \frac{1}{r-\sqrt{r-n}} = \frac{r-n}{a\sqrt{r-n}}$$

(2)

$$\frac{r-\sqrt{r-n}-\sqrt{r-n}-r}{r-r+n} = \frac{r\sqrt{r-n}}{r+n} = \frac{r-n}{a\sqrt{r-n}}$$

$$-10(\sqrt{r-n})^r = r-n^r \rightarrow -10+10n = r-n^r$$

$$n^r + 10n - r^r = 0$$

$$(n+1)(n-r) = 0 \rightarrow n=r \rightarrow \text{JOC}$$

$$\rightarrow n=-1 \text{ or } 0$$

(3-2-10)

$$\frac{n^r+1-rn+n^r}{n^r(1-n)^r} = \frac{14}{r} \rightarrow n^r \rightarrow 14r+a = 14n^r-r^r$$

$$14n^r - r^r - n^r + 14r^r + 14n - a = 0$$

$$n = \frac{1}{r} \rightarrow \frac{r}{a} \rightarrow \frac{1}{r} + \frac{r}{a} = 0$$

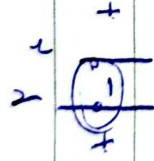
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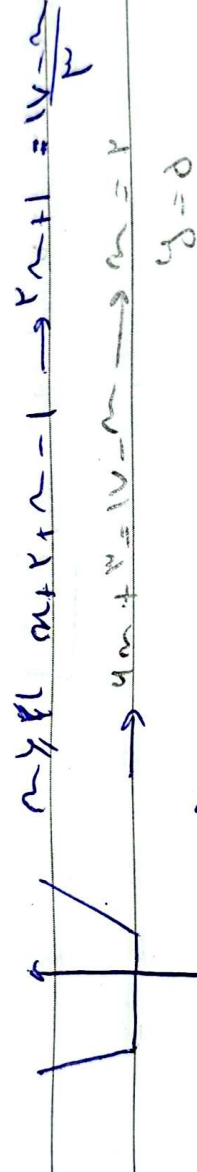
$$-n^3 + 4n^2 + 100n - 100 > 0 \rightarrow 28n - 100 > 0 \rightarrow n \geq 4 \rightarrow \text{جواب با } n \geq 4 \text{ صحیح است.}$$

$$-4n^2 + 4n + 100 - 100 = 0 \rightarrow \text{جواب با } n \geq 4 \text{ صحیح است.}$$

$$-n^3 + 4n - n > 0 \rightarrow n^2 - 4n + n < 0 \rightarrow (n-4)(n-1) < 0 \rightarrow$$



پس β, A در $n=1$ و $n=4$ $y = |n+1| + |n-1|$ (۱)
 متوجه می شویم که AB در $n=1$ و $n=4$ است.

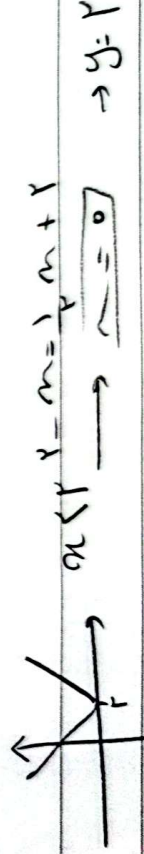


$$n+1+n-1 \rightarrow 2n \rightarrow n=1$$

$$\rightarrow AB = \sqrt{(-1+1)^2 + (n-1)^2} = \sqrt{100} = 10$$

$$y = \sqrt{n^2 - 4n + 4} \quad y = \frac{1}{2}n + 1 \quad (2)$$

$$|n-1| + \frac{1}{2}n + 1 = n-1 \rightarrow n=4$$



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$$\sigma_{\text{acc}} = \sqrt{1 + (u/v)^2} = \sqrt{1 + \frac{u^2}{v^2}}$$

$$\sigma_{\text{acc}}(v_0) \rightarrow \frac{1 + \frac{u^2}{v_0^2}}{\sqrt{1 + \frac{u^2}{v_0^2}}} = \frac{u}{v_0} \quad s = \frac{u}{v_0} \times \sqrt{1 + \frac{u^2}{v_0^2}} = \frac{u}{v_0} \times \sqrt{1 + \frac{u^2}{v_0^2}}$$

(10)

$$v_0 = t \quad \text{for } t = t + a$$

$$\rightarrow \frac{1}{t} + \frac{a}{t+a} = \frac{1}{v_0} \rightarrow \frac{v_0 + a}{t(t+a)} = \frac{1}{v_0} \rightarrow$$

$$v_0 t + 1 + a = t^2 + a t \rightarrow t^2 - v_0 t - 1 + a = 0$$

$$(t - v_0)(t + 1) = 0 \rightarrow t = v_0$$