

نوشته ارسالی - یادداشت سری B

$$\frac{u}{y} = \frac{\omega}{\varepsilon} \quad u = \frac{\omega}{\varepsilon} y$$

$$S = \frac{\omega}{\varepsilon} y \times y = \frac{\omega}{\varepsilon} y^2$$

$$(u_{sub}) u' = \left(\frac{1+\sqrt{\omega}}{r} \right) y$$

1

$$S_{sub} = \frac{1+\sqrt{\omega}}{r} y \times y = \frac{1+\sqrt{\omega}}{r} y^2$$

$$\frac{S_{sub}}{S} = \frac{\frac{1+\sqrt{\omega}}{r} y^2}{\frac{\omega}{\varepsilon} y^2} = \frac{r+\sqrt{\omega}}{\omega}$$

$$x^2 + y^2 = d^2 \Rightarrow d = \sqrt{x^2 + y^2}$$

$$\frac{d}{x} = \frac{1+\sqrt{\omega}}{r} \Rightarrow \frac{\sqrt{x^2 + y^2}}{x} = \frac{1+\sqrt{\omega}}{r}$$

$$\left(\frac{x \sqrt{1 + \left(\frac{y}{x} \right)^2}}{x} = \frac{1+\sqrt{\omega}}{r} \right) \Rightarrow 1 + \left(\frac{y}{x} \right)^2 = \frac{r^2 + \omega}{\varepsilon}$$

$$\frac{r^2 + \omega}{\varepsilon} = \frac{r^2 + \omega}{r} = 1 + \left(\frac{y}{x} \right)^2$$

2

$$\left(\frac{y}{x} \right)^2 = \frac{r^2 + \omega}{r} - 1 = \frac{r^2 + \omega - r}{r} = \frac{r + \omega}{r}$$

$$\left(\frac{x}{y} \right)^2 = \frac{r}{r + \omega} \times \frac{1 - \sqrt{\omega}}{1 - \sqrt{\omega}} = \frac{r - r\sqrt{\omega}}{-\varepsilon} = \frac{\sqrt{\omega} - 1}{r}$$

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

$$ra^2 + \varepsilon a = r^2 - 2ra + \varepsilon a \Rightarrow var - 4a + \varepsilon = 0$$

3

$$\Delta = 16\varepsilon \quad a \sqrt{r} \times$$

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

$\frac{\varepsilon}{r}$

$$\sqrt{x-1} = t \quad x = t^2 + 1$$

نوشتن اریس - یازدهم سری 3

$$\sqrt{x+1} = \sqrt{t^2+2}$$

(ع)

$$\frac{\sqrt{t^2+2}}{t+2} - \frac{\sqrt{t^2+2}}{2-t} = \frac{t^2}{t^2-4} = t$$

$$\sqrt{t^2+2} \left(\frac{1}{t+2} - \frac{1}{2-t} \right) = \frac{2t \sqrt{t^2+2}}{t^2-4}$$

$$\frac{2-t-t-2}{4-t^2} = \frac{-2t}{4-t^2}$$

$$\frac{2t \sqrt{t^2+2}}{t^2-4} = t \quad 2\sqrt{t^2+2} = t^2-4$$

$t > 2$

$$4t^2 + 16 = t^4 - 16t^2 + 16$$

$$\textcircled{E} t^4 - 20t^2 + 16 = 0$$

$$\Rightarrow t^2 = p \quad p^2 - 20p + 16 = 0$$

$$\Delta = 192 \quad p_{1,2} = \frac{20 \pm \sqrt{192}}{2}$$

$$t^2 = 11 \pm 4\sqrt{3}$$

$$= 11 \pm 4\sqrt{3}$$

$$t^2 = 11 - 4\sqrt{3} < 0 \quad t > 2 \Rightarrow t^2 = 11 + 4\sqrt{3}$$

$$t = \sqrt{11 + 4\sqrt{3}} \approx 4, 23$$

$$x = t^2 + 1 = 11 + 4\sqrt{3} + 1 = 12 + 4\sqrt{3}$$

پایان

6

$$\sqrt{P-K} = t \quad K = -t^2 + P$$

$$\frac{1}{t+P} - \frac{1}{P-t} = \frac{t^2}{\omega t}$$

$$\frac{-Pt}{P-t^2} = \frac{Pt}{t^2-P}$$

$$\frac{Pt}{t^2-P} = \frac{t^2}{\omega t}$$

$$\text{lot } P = t^2 - K = t^2$$

$$t^2 - K = t^2 = 0$$

$$t^2 = P \quad P^2 - K^2 = 0$$

$$P = t^2$$

$$P = \int_0^{\infty} \frac{1}{t^2}$$

$$K = -t^2 + P$$

$$K = \int_{-19E}^P x \cdot \overline{\text{سوق}}$$

السوق مستنار

~~البيان~~
البيان

فوتس اربس

يا زمره

$$\frac{1}{u^r} + \frac{1}{1-u^r} = \frac{100}{9}$$

(9)

$$\left(u - \frac{1}{u}\right)^r = t$$

$$\frac{u(1-u)}{u-u^r} = \frac{1}{r} - \left(u - \frac{1}{u}\right)^r$$

$$10 - 100 + 140t^r = 10t + 100 \frac{1}{r} \Rightarrow 140t^r - 90t + 100 = 0$$

$$140t^r - 144t + 11 = 0$$

$$u - \frac{1}{u} = \pm \sqrt{t} \quad \begin{cases} u = \frac{1}{r} \pm \frac{1}{r} \sqrt{\frac{11}{10}} \\ u = \frac{1}{r} \pm \sqrt{\frac{11}{10}} \end{cases} \quad \begin{cases} \frac{10}{u^r} = \frac{1}{14} \\ \frac{140}{u^r} = \frac{11}{10} \end{cases}$$

$$\frac{10}{u^r} = \frac{1}{14} \Rightarrow \frac{1}{u^r} = \frac{1}{140}$$

beşinci derece - çözümleri

فوسل اوسل - تاوسل سول

(1)

$$|u+v| + |u-1| = \frac{u-v}{p}$$

$$\begin{array}{c|c|c} & u & 1 \\ \hline u+v & (u+v)-(u-1) = \frac{u-v}{p} & (u+v)(u-1) = \frac{u-v}{p} \\ \hline u-v & \frac{u-v}{p} & \frac{u-v}{p} \\ \hline \end{array}$$

$u-v = 0$
 $u = -v$
 $u-v = 1$

$$u = v, -v$$

$$u = v, y = 0$$

$$u = -v, y = v$$

$$d = \sqrt{(-v-v)^2 + (v-0)^2} = \sqrt{4v^2 + v^2} = \sqrt{5}$$

$$= \sqrt{5}$$

$$\left(\frac{a}{1} = \frac{b+x}{1} + \frac{x}{1} \right)$$

9

$$|x - n| = 3 + nx - x^2 = 0$$

(b)

$\bar{B} \text{ (সমস্ত) } \bar{C} - \bar{A} \text{ (সমস্ত) } \bar{D}$