

$$\frac{x}{y} = \frac{\omega}{r} \Rightarrow x = \frac{\omega}{r} y$$

$$S = \frac{Q}{T} g x y = \frac{Q}{T} g' y \quad \text{und } y' = \left(\frac{1 + \sqrt{A}}{1'} \right) y$$

$$\frac{\partial g}{\partial y} = \frac{1+\sqrt{a}}{r} g \times g = \frac{1+\sqrt{a}}{r} g^r \quad \frac{\partial g}{\partial y} = \frac{1+\sqrt{a}}{r} g^r = \frac{r+\sqrt{a}}{a}$$

$$\begin{aligned} x^r + y^r - d^r &= \gamma \quad \Rightarrow \quad d = \sqrt{x^r + y^r} \quad \frac{d}{x} = \frac{1 + \sqrt{\alpha}}{r} \Rightarrow \frac{\sqrt{x^r + y^r}}{x} = \frac{1 + \sqrt{\alpha}}{r} \\ \Rightarrow \sqrt{x^r + y^r} &= \sqrt{x^r \left(1 + \left(\frac{y}{x}\right)^r\right)} = x \sqrt{1 + \left(\frac{y}{x}\right)^r} \end{aligned}$$

$$\left(\frac{x\sqrt{1+\left(\frac{y}{x}\right)^2}}{x} - \frac{1+\sqrt{a}}{y} \right)^p \Rightarrow 1 + \left(\frac{y}{x}\right)^p = \frac{1+y\sqrt{a}+a}{x} = \gamma \left(\frac{y}{x}\right)^p = \frac{y+y\sqrt{a}}{x} - 1 = \frac{y+y\sqrt{a}}{x} = \frac{1+\sqrt{a}}{y}$$

$$\Rightarrow \left(\frac{x}{g}\right)^p = \frac{y}{1+\sqrt{\Delta}} \quad \frac{y}{1+\sqrt{\Delta}} \times \frac{1-\sqrt{\Delta}}{1-\sqrt{\Delta}} = \frac{y-y\sqrt{\Delta}}{1-\Delta} = \frac{\sqrt{\Delta}-1}{y}$$

$$v_a + \sqrt{v_a^2 + f_a} = v \Rightarrow \sqrt{v_a^2 + f_a} = v - v_a$$

$$= 72a^2 + 15a = 7 - 11a + 9a^2 \Rightarrow 72a^2 - 14a + 7 = 0 \quad \Delta = 196 - 112 = 144$$

$$a = \frac{14 \pm 11}{11} \begin{cases} 1 \times 10^6 \\ \frac{1}{11} \checkmark \end{cases}$$

$$\frac{a+1}{a} = 1 + \frac{1}{a} \Rightarrow 1 + \frac{1x}{x} = \frac{1x}{x} = \frac{1}{1} = \frac{1}{1}$$

$$\sqrt{n-1} = t \Rightarrow n = t^2 + 1$$

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

$$\frac{\sqrt{t^y + y}}{t + y} - \frac{\sqrt{t^y + y}}{y - t} = \frac{t^x}{x}$$

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

$$\Rightarrow t^4 = 11 + 4\sqrt{3} \Rightarrow t = \sqrt{11 + 4\sqrt{3}} \quad , \quad \sqrt{11 + 4\sqrt{3}} > 4 \quad \checkmark \quad x = t + 1 = 11 + 4\sqrt{3} + 1 = 12 + 4\sqrt{3}$$

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

$$\frac{1}{t+p} - \frac{1}{p-t} = \frac{t^p}{\omega t} \Rightarrow \frac{-pt}{t^p - t^p} = \frac{-pt}{t^p - t^p} = \frac{pt}{t^p - t^p} \Rightarrow \frac{pt}{t^p - t^p} = \frac{t^p}{\omega t} \Rightarrow t^p = t^p - t^p \Rightarrow t^p = 0$$

$$\begin{aligned} t^y &= z \\ \Rightarrow z - 1Kz &= 0 \quad \Delta = 194 \quad z = \frac{1K \pm 1K}{1} = \begin{cases} 0 \\ 1K \end{cases} \Rightarrow z = t^y \quad x = -t^y + 1 = 2x = \begin{cases} 0 \\ -194 \end{cases} \checkmark \end{aligned}$$

معامله یک (سه مسی) - ۲ دار.

$$\left(\frac{1}{x^V} + \frac{1}{(1-x)^V} = \frac{140}{9}\right) \Rightarrow \frac{\overbrace{x^V - (1-x)^V}^{x^V - (1-x)^V}}{x^V(1-x)^V} = \frac{V(x - \frac{1}{V})^V + \frac{1}{V}}{(\frac{1}{x} - (x - \frac{1}{V})^V)^V} = \frac{V \cdot t - \frac{1}{V}}{(\frac{1}{x} - t)^V} = \frac{140}{9}$$

$$(x - \frac{1}{V})^V = t \quad \hookrightarrow \underbrace{x(1-x)}_{x - x^V} = \frac{1}{x} - (x - \frac{1}{V})^V$$

$$\Rightarrow 10 - 100V + 100t^2 - 10t + \frac{9}{V} \Rightarrow 190t^2 - 91t + 11 = 0 \Rightarrow 190t^2 - 194t + 11 = 0$$

$$x - \frac{1}{V} = \pm \sqrt{t} \Rightarrow \begin{cases} x = \frac{1}{V} \pm \frac{1}{\sqrt{t}} \\ x = \frac{1}{V} \pm \sqrt{\frac{1}{t}} \end{cases} \quad \begin{aligned} &\Delta = 194^2 - 4 \cdot 190 \cdot 11 \\ &\text{locus } C = \frac{1}{V} + \frac{1}{V} + \frac{1}{V} + \sqrt{\frac{1}{V_0}} + \frac{1}{V} - \sqrt{\frac{1}{V_0}} = \sqrt{7} \end{aligned} \quad \begin{aligned} &+ \frac{194 \pm 184}{950} = \begin{cases} \frac{+10}{950} = +\frac{1}{95} \\ \frac{+18}{950} = \frac{18}{950} \end{cases} \end{aligned}$$

1) $-u'' + fu' + (au - 1)u \gg_0 \rightarrow u \in [-\infty, -a] \cup [a, \infty)$

$$x + iy \rightarrow u \in [-r_1 + \alpha)$$

$$r) - u^{r+q_{n-1}} \gg. \rightarrow u \in [r, f]$$

$$\frac{2 = F}{\swarrow} \rightarrow 1 + F = 4$$

$$r) \quad u + \sqrt{-a^r + F_n^r + 4a_{n-1}} \geq u_1.$$

معادہ کے جواب دار

F) $x^r + \sqrt{-x^r + y_{n-1}} \geq \dots \rightarrow$ هعبارت مثبت -

$$\frac{|x+y|}{-4} + \frac{|x-1|}{+1} = \frac{14-x}{4}$$

$-Y$	1
$-x - Y - x + 1 = \frac{1V - x}{Y}$ $-2x = Y_0$ $x = -\frac{Y}{2}$ $-Y - \frac{Y}{2} = -\frac{3Y}{2}$	$x + Y - x + 1 = \frac{1V - x}{Y}$ $Y = \frac{1V - x}{Y}$ $Y^2 = 1V - x$ $x = 1V - Y^2$

$$x = y - x$$

$$x = -x \quad y = v$$

$$x = y \quad y = a$$

$$d = \sqrt{y^2 q + k} = \sqrt{k_0 - y\sqrt{10}}$$

$$y - \sqrt{x^2 - rx + r} = \sqrt{(x-r)^2} = |x-r| \quad y = \frac{1}{r}x + r$$

$$y = \frac{1}{p}x + r$$

$$\begin{cases} x - y = \frac{1}{y}x + y \Rightarrow \frac{1}{y}x = x - y \Rightarrow x = y \\ y - x = \frac{1}{y}x + y \Rightarrow -\frac{y}{y}x = 0 \Rightarrow x = 0 \end{cases} \quad \begin{matrix} y = 4 \\ y = 2 \end{matrix}$$

$y = 9$

$$g = \gamma$$

$$|n-r| = \frac{1}{r} u + r$$

$$A(x, y) \quad B(x, y) \quad C(x, y)$$

$$AB = r\sqrt{r}$$

$$BC = 9\sqrt{r}$$

$$S = \frac{1\sqrt{1} \times 4\sqrt{1}}{1} = 14$$

$$\frac{1}{n} + \frac{1}{n-9} = \frac{1}{y_0} \Rightarrow \frac{y_0 n - 9}{n^2 - 9n} = \frac{1}{y_0}$$

$$x^y - 9x = f_0x - 110 \Rightarrow x^y - f_9x + 110 = 0$$

$$\begin{aligned} x^2 - 19x + 10 &= 0 \\ \Delta = 19^2 - 4 \cdot 10 &= 301 \end{aligned} \quad \left. \begin{aligned} x &= \frac{19 \pm \sqrt{301}}{2} \end{aligned} \right\} \begin{aligned} &x_{\text{max}} \\ &x_{\text{min}} \end{aligned}$$

$$x_0 - q = \sqrt{q h}$$