

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

$$S = \frac{D}{r} g x y = \frac{D}{r} g' \quad \text{with } g' = \left( \frac{1 + \sqrt{3}}{r} \right) y$$

$$\frac{\text{sig}_{\text{gms}}}{\text{sig}_{\text{gms}}} = \frac{1+\sqrt{a}}{r} g \times g = \frac{1+\sqrt{a}}{r} g^r \quad \frac{\text{sig}_{\text{gms}}}{\frac{\text{sig}_{\text{gms}}}{r} g^r} = \frac{1+\sqrt{a}}{r} g^r = \frac{r+\sqrt{a}}{a}$$

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

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

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

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

$$y_a + \sqrt{y_a^2 + fa} = y \Rightarrow \sqrt{y_a^2 + fa} = y - y_a$$

$$= 72a^2 + 12a = 72a^2 + 9a^2 = 81a^2 - 19a + 11 = 0 \quad \Delta = 121 - 112 = 9$$

$$a = \frac{14 \pm 14}{14} \begin{cases} 1 \times 0.5 \\ \frac{1}{14} \checkmark \end{cases}$$

$$\frac{a+1}{a} = 1 + \frac{1}{a} \Rightarrow 1 + \frac{1k}{k} = \frac{1\Lambda}{k} = \frac{4}{1}$$

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

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

$$\frac{\sqrt{t^v + v}}{t + v} - \frac{\sqrt{t^v + v}}{v - t} = \frac{t^v}{t}$$

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

$$\Rightarrow \gamma^P = 11 + \sqrt{12} = \gamma^t = \sqrt{11 + \sqrt{12}} \quad , \quad \sqrt{11 + \sqrt{12}} > 10 \quad \checkmark \quad \gamma^c = t + 1 = 11 + \sqrt{12} + 1 = 12 + \sqrt{12}$$

$$\sqrt{y-x} = t \quad x = -t^4 + y$$

$$\frac{1}{t+\gamma} - \frac{1}{\gamma-t} = \frac{t^r}{\Delta t} \Rightarrow \frac{-\gamma t}{\gamma-t^r} = \frac{-\gamma t}{\gamma-t^r} = \frac{\gamma t}{t^r-\gamma} \Rightarrow \frac{\gamma t}{t^r-\gamma} = \frac{t^r}{\Delta t} \Rightarrow \gamma \log^r = t^r - \gamma t^r = \gamma t^r - 11\gamma t^r = 0$$

$$\begin{aligned} t^Y z &= z^Y - 11K z = 0 \quad \Delta = 194 \quad z = \frac{1K \pm 11K}{Y} = \begin{cases} 0 \\ 11K \end{cases} \\ \Rightarrow z &= t^Y x = -t^Y + Y = Yx = \begin{cases} Y \\ -19K \end{cases} \quad \begin{matrix} \checkmark \\ x_{\text{free}} \end{matrix} \end{aligned}$$

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| $\left(\frac{1}{x^p} + \frac{1}{(1-x)^p} = \frac{190}{9}\right) \Rightarrow \frac{x^p + (1-x)^p}{x^p(1-x)^p} = \frac{p(x - \frac{1}{p})^p + \frac{1}{p}}{(\frac{1}{p} - (x - \frac{1}{p})^p)^p} = \frac{p \cdot t - \frac{1}{p}}{(\frac{1}{p} - t)^p} = \frac{190}{9}$ $(x - \frac{1}{p})^p = t$ $\Rightarrow 10 - 100V + 100t^p - 10t + \frac{9}{p} = 0 \Rightarrow 190t^p - 91t + 10,9 = 0 \Rightarrow 190t^p - 199t + 11 = 0$ $x - \frac{1}{p} = \pm \sqrt[p]{t} \Rightarrow \begin{cases} x = \frac{1}{p} \pm \sqrt[p]{t} \\ x = \frac{1}{p} \pm \sqrt[p]{\frac{11}{190}} \end{cases} \quad \begin{cases} \frac{1}{p} > \frac{1}{p} \\ \text{لا يوجد } x = \frac{1}{p} + \sqrt[p]{\frac{11}{190}} + \frac{1}{p} + \sqrt[p]{\frac{11}{190}} = \sqrt[p]{\frac{11}{190}} = \sqrt[p]{1} \end{cases}$ $\Delta = 19^2 \cdot 190^2 - 4 \cdot 190 \cdot 11 = 194 \pm 184 = \frac{10}{190} \Rightarrow \begin{cases} \frac{190}{190} = +\frac{1}{19} \\ \frac{190}{190} = +\frac{11}{190} \end{cases}$ | 6                                                                                                                             |   |                                                                                                                                |                                                                                                                               |   |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | V                                                                                                                             |   |                                                                                                                                |                                                                                                                               |   |
| $\frac{ x+y }{-p} + \frac{ x-1 }{+1} = \frac{1V-x}{p}$ <table border="1" data-bbox="159 940 1037 1187"> <thead> <tr> <th>-p</th><th>1</th></tr> </thead> <tbody> <tr> <td> <math>-x-y-x+1 = \frac{1V-x}{p}</math><br/> <math>-2x = \frac{1V-x}{p}</math><br/> <math>-2x = \frac{1V}{p}</math><br/> <math>x = -\frac{1V}{2p}</math><br/> <math>-x &lt; -\frac{1V}{2p}</math> </td><td> <math>x+y-x+1 = \frac{1V-x}{p}</math><br/> <math>y+1 = \frac{1V-x}{p}</math><br/> <math>py + p = 1V - x</math><br/> <math>px = 1V - py \Rightarrow x = \frac{1V - py}{p}</math> </td></tr> </tbody> </table> $x = \frac{1V}{p} > -x$ $x = -x \quad y = V$ $x = V \quad y = 0$ $d = \sqrt{p^2 + 1} = \sqrt{10} = \sqrt{10}$                                                                                                                                                                                                                                                                                  | -p                                                                                                                            | 1 | $-x-y-x+1 = \frac{1V-x}{p}$<br>$-2x = \frac{1V-x}{p}$<br>$-2x = \frac{1V}{p}$<br>$x = -\frac{1V}{2p}$<br>$-x < -\frac{1V}{2p}$ | $x+y-x+1 = \frac{1V-x}{p}$<br>$y+1 = \frac{1V-x}{p}$<br>$py + p = 1V - x$<br>$px = 1V - py \Rightarrow x = \frac{1V - py}{p}$ | A |
| -p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                                                                                             |   |                                                                                                                                |                                                                                                                               |   |
| $-x-y-x+1 = \frac{1V-x}{p}$<br>$-2x = \frac{1V-x}{p}$<br>$-2x = \frac{1V}{p}$<br>$x = -\frac{1V}{2p}$<br>$-x < -\frac{1V}{2p}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | $x+y-x+1 = \frac{1V-x}{p}$<br>$y+1 = \frac{1V-x}{p}$<br>$py + p = 1V - x$<br>$px = 1V - py \Rightarrow x = \frac{1V - py}{p}$ |   |                                                                                                                                |                                                                                                                               |   |
| $y - \sqrt{x^p - px + p} - \sqrt{(x-p)^p} =  x-p  \quad y = \frac{1}{p}x + p$ $\begin{cases} x-p = \frac{1}{p}x + p \Rightarrow \frac{1}{p}x = p \Rightarrow x = p \\ y = p \end{cases}$ $\begin{cases} p-x = \frac{1}{p}x + p \Rightarrow -\frac{p}{p}x = 0 \Rightarrow x = 0 \\ y = p \end{cases}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9                                                                                                                             |   |                                                                                                                                |                                                                                                                               |   |
| $\frac{1}{x} + \frac{1}{x-9} = \frac{1}{10} \Rightarrow \frac{px-9}{x^p-9x} = \frac{1}{10}$ $x^p-9x = 10x-100 \Rightarrow x^p-19x+100=0$ $\Delta = 19^2 - 4 \cdot 100 = 361 - 400 = -39$ $x = \frac{19 \pm \sqrt{-39}}{1}$ $x_0 - 9 = \sqrt{19h}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.                                                                                                                            |   |                                                                                                                                |                                                                                                                               |   |