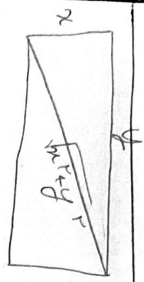


$$\frac{f}{w} = \frac{\partial}{\partial \xi} \Rightarrow \ell_r = f + \alpha \Rightarrow \frac{f + \alpha}{w} = \frac{w + f + \alpha}{w + \alpha} \quad (1)$$

$$\begin{aligned} \beta &= \frac{f}{\partial \xi} \Rightarrow \frac{1 + \sqrt{\partial}}{1} \times \frac{1}{\partial} \times \frac{1}{\partial} = \frac{1 + \sqrt{\partial}}{\partial} \\ \beta + \alpha &= \frac{1 + \sqrt{\partial}}{1} \times \frac{1}{\partial} = \frac{1 + \sqrt{\partial}}{\partial} \end{aligned}$$



$$\begin{aligned} \frac{\sqrt{1+f^2}}{g} &= \frac{1 + \sqrt{\partial}}{1} \Rightarrow \frac{\sqrt{1+f^2}}{g} = \frac{1 + \sqrt{\partial}}{1} \\ \Rightarrow \frac{\sqrt{1+f^2}}{g} &= \frac{1 + \sqrt{\partial}}{1} \Rightarrow \frac{\sqrt{1+f^2}}{g} = \frac{1 + \sqrt{\partial}}{1} \end{aligned}$$

$$r_a + \sqrt{r_a^2 + \xi a} = r \quad (2)$$

$$\begin{aligned} \sqrt{r_a^2 + \xi a} &= r - r_a \xrightarrow{\text{ربّع الطرفين}} r_a^2 + \xi a = r^2 - 1r_a + a r_a^2 \\ \Rightarrow \sqrt{a^2 - 1} r_a + \xi &= \dots \rightarrow a^T - 1r_a + r_a = \dots \rightarrow (r_a - 1)(a - \frac{1}{r}) \Rightarrow \boxed{a = \frac{1}{r}} \end{aligned}$$

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

$$\begin{aligned} \frac{\sqrt{a+1}}{\sqrt{a-1} + r} &= \frac{\sqrt{a+1}}{\sqrt{a-1}} \times \frac{1}{1 + r\sqrt{a-1}} \Rightarrow \frac{\sqrt{a+1}}{\sqrt{a-1}} \times \frac{1}{1 + r\sqrt{a-1}} \\ \Rightarrow \frac{-\sqrt{a-1}}{-a+1} &= \sqrt{a-1} \Rightarrow \frac{-\sqrt{a-1}}{-a+1} = \sqrt{a-1} \Rightarrow \sqrt{a-1} = -a+1 \end{aligned}$$

$$\begin{aligned} f(a+1) &= r_a - r_a + 1 \Rightarrow r_a^T - r_a^2 a + a r_a = \dots \\ r_a \times r_a &= \partial r_a - r_a^2 \end{aligned}$$

$$\begin{aligned} \frac{1}{\sqrt{r_a + r}} &= \frac{1}{\sqrt{r_a}} \times \frac{1}{\sqrt{1 + \frac{r}{r_a}}} = \frac{1}{\sqrt{r_a}} \times \frac{1}{\sqrt{1 + r\sqrt{a-1}}} \\ &= \frac{1}{\sqrt{r_a}} \times \frac{1}{\sqrt{1 + r\sqrt{a-1}}} = \frac{1}{\sqrt{r_a}} \times \frac{1}{\sqrt{1 + r\sqrt{a-1}}} \end{aligned}$$

$$\begin{aligned} \frac{1}{\sqrt{r_a + r}} &= \frac{1}{\sqrt{r_a}} \times \frac{1}{\sqrt{1 + r\sqrt{a-1}}} = \frac{1}{\sqrt{r_a}} \times \frac{1}{\sqrt{1 + r\sqrt{a-1}}} \\ &= \frac{1}{\sqrt{r_a}} \times \frac{1}{\sqrt{1 + r\sqrt{a-1}}} = \frac{1}{\sqrt{r_a}} \times \frac{1}{\sqrt{1 + r\sqrt{a-1}}} \end{aligned}$$

$$\frac{1}{n^r} + \frac{1}{(1-n)^r} = \frac{14}{9} \Rightarrow \left(\frac{1}{n} + \frac{1}{1-n}\right)^r - r\left(\frac{1}{n-n^r}\right) = \frac{14}{9} \quad (4)$$

$$\Rightarrow \left(\frac{1}{n-n^r}\right)^r - r\left(\frac{1}{n-n^r}\right) = \frac{14}{9} \Rightarrow t^r - r t + 1 = \frac{149}{9} \Rightarrow t^r - r t = \frac{149}{9}$$

$$\Rightarrow \frac{1+t}{n-n^r} = \frac{149}{9} \Rightarrow n = 149n - 149n^r \Rightarrow t-1 = \frac{14}{9} \Rightarrow t = \frac{14}{9} \quad \left(\frac{14}{9} \leq t \leq \frac{14}{9}\right)$$

$$x+r \geq 0 \Rightarrow x \geq -r \quad (1)$$

$$-x^r + 4x - 1 \geq 0 \Rightarrow r \leq x \leq 1 \quad (2)$$

$$-x^r + 4x - 1 \geq 0 \Rightarrow -x^r(x-\varepsilon) + 4\varepsilon(x-\varepsilon) \geq 0 \Rightarrow (x^r + 4\varepsilon)(x-\varepsilon) \geq 0$$

$$\frac{-x}{+} \quad \frac{+}{-} \quad \frac{+}{-} \quad \frac{-}{+} \Rightarrow (-\infty, -\varepsilon] \cup [\varepsilon, \infty) \quad (3) \quad \text{نقاط بحرانی}$$

$$\begin{array}{c} -r \\ | \\ -r_{m-1} \quad | \quad \mu \quad | \quad r_m \end{array}$$

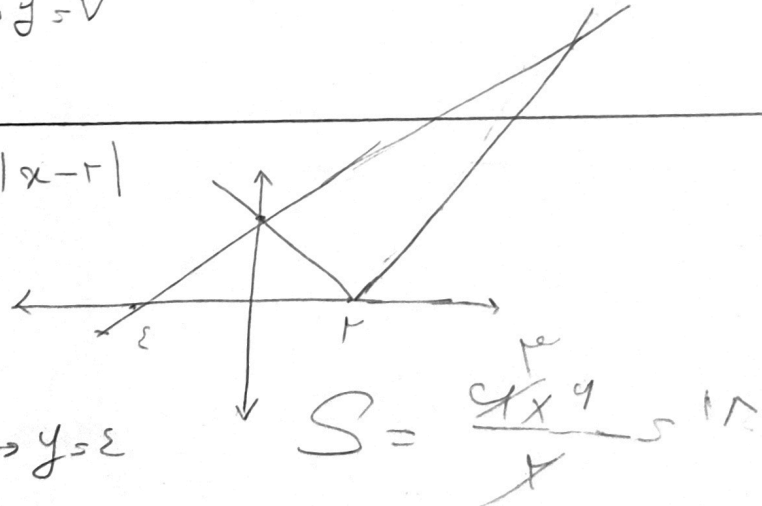
$$y = \frac{14-n}{\mu}$$

$$r_{m+1} = \frac{14-n}{\mu} \Rightarrow x=r, y=\omega \quad AB = \sqrt{4+9} = \boxed{5}$$

$$-r_{m-1} = \frac{14-n}{\mu} \Rightarrow x=-\varepsilon, y=v$$

$$y = \sqrt{x^r - \varepsilon x + \varepsilon} \Rightarrow y = |x-r|$$

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



$$\frac{1}{r}x + r = x - r \Rightarrow -\frac{1}{r}x = -\varepsilon \Rightarrow \boxed{x=1} \Rightarrow y=\varepsilon$$

$$\frac{1}{x} + \frac{1}{x+9} = \frac{1}{r} \Rightarrow \frac{x+9+x}{x^2+9x} = \frac{1}{r}$$

$$r(x+18) = x^2+9x \Rightarrow x^2 - 31x - 18 = 0 \Rightarrow \frac{31 \pm \varepsilon}{2}$$

$$\Delta = \varepsilon$$

$$x+9 = r\omega$$

$$(1)$$

$$\boxed{34}$$

$$\boxed{34}$$