

$$\frac{1}{5} = \frac{2}{3}$$

②

$$\frac{n_r}{y} = \frac{1+\sqrt{5}}{2} \Rightarrow n_r = \phi \cdot y \Rightarrow n_r = \phi \cdot x \cdot \left(\frac{1+\sqrt{5}}{2}\right) \Rightarrow x + x\sqrt{5}$$

$$\frac{S_r}{S_1} = \frac{n_1 y}{n_1 y} - \frac{n_r}{n_1} = \frac{r + r\sqrt{8}}{8} \quad \checkmark$$

y  $\frac{d}{n} = \phi = \frac{1 + \sqrt{5}}{2}$

(2)

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

$$\frac{5 + 2\sqrt{5}}{5} = 1 + \left(\frac{y}{x}\right)^2 \Rightarrow \frac{2 + 2\sqrt{5}}{5} = \left(\frac{y}{x}\right)^2 \Rightarrow \frac{1 + \sqrt{5}}{5} = \left(\frac{y}{x}\right)^2 \Rightarrow \frac{1 + \sqrt{5}}{5} = \frac{4}{1 + \sqrt{5}}$$

$$ra + \sqrt{ca}^2 + \epsilon a = r \rightarrow \sqrt{ra + \epsilon a} = r - r_a \xrightarrow{\text{Taylor}} ra + \epsilon a = 2a^2 + \epsilon - 2r_a a + \epsilon a + \epsilon^2 = 0$$

$$L_2 a^2 - L_2 a + L_2 = 0 \rightarrow (a-1)(a-1) = \frac{1}{1} \cdot \frac{1}{1} = 1$$

$$\frac{n+1}{\sqrt{n-1} + r} - \frac{n+1}{r - \sqrt{n-1}} = \frac{n-1}{\sqrt{n-1}} \xrightarrow{\times (\sqrt{n-1} + r)(r - \sqrt{n-1})(\sqrt{n-1})}$$

0, 2

[illegible]

$$\frac{1}{\sqrt{r-n} + r} - \frac{1}{r - \sqrt{r-n}} = \frac{r-n}{\delta \sqrt{r-n}} \xrightarrow{\text{L'Hôpital}} \frac{r - \sqrt{r-n} - \sqrt{r-n} - r}{2 - r + n} \rightarrow \frac{-2\sqrt{r-n}}{r+n} = \frac{r-n}{\delta \sqrt{r-n}}$$

(15)

$$L) -\log \sqrt{(x-u)^2} = \frac{1}{2} \log (x-u)^2 = \frac{1}{2} \log (x^2 - 2xu + u^2) = \frac{1}{2} \log (x^2 - 2xu + u^2) = \frac{1}{2} \log (x^2 - 2xu + u^2) = \frac{1}{2} \log (x^2 - 2xu + u^2)$$

$$D = n \leq r$$

حیج ریشہ فطریہ نذرہ!

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$$\frac{1}{u^2} + \frac{1}{(1-u)^2} = \frac{19}{9} \rightarrow \frac{u^2(1-u)^2}{b(1-u)^2 + u^2} = \frac{19}{9}$$

$$1 - 2u + u^2 = \frac{19}{9} (u(1-u))^2 \rightarrow 1 - 2u + u^2 = \frac{19}{9} (u - u^2)^2$$

$$u^2 - u = +$$

$$1 - 2u + \frac{19}{9} + 2 - 19u + 9 = 0 \rightarrow 12 = -\frac{19}{9} \rightarrow u^2 - u = \frac{19}{9} \rightarrow u^2 - u - \frac{19}{9} = 0 \rightarrow S = -\frac{b}{a} = 1$$

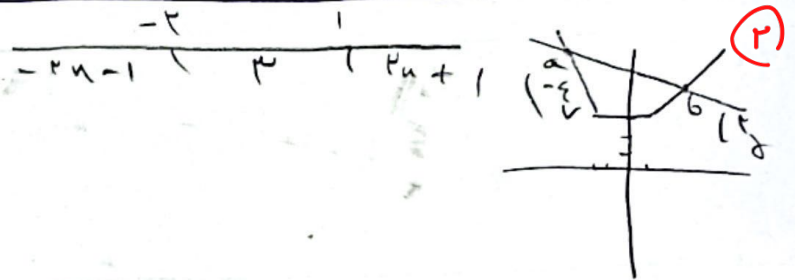
$$u + \sqrt{-u^2 + 4u - 1} \geq 0 \rightarrow \sqrt{-u^2 + 4u - 1} \geq -u \rightarrow -u^2 + 4u - 1 \geq u^2$$

$$-u^2 + 4u - 1 \geq 0 \rightarrow u^2 - 4u + 1 \leq 0 \rightarrow (u-2)^2 \leq 3 \rightarrow u-2 \leq \sqrt{3} \rightarrow u \leq 2 + \sqrt{3}$$

$$u-2 \geq -\sqrt{3} \rightarrow u \geq 2 - \sqrt{3}$$

$$y = |u+1| + |u-1| \quad \text{for } y+u=14$$

$$S(0-y)(u^2+\frac{1}{9}) \rightarrow S \leq 0$$



$$y = \sqrt{u^2 - 4u + 4} = |u-2|$$

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

$$u-2 = \frac{1}{p}u + r \rightarrow u = \Lambda \text{ and } y = 5$$

$$u + r = 1 \rightarrow \frac{1}{p}u + r = 0 \rightarrow y = 2$$

$$AB = 2\sqrt{2} \quad BC = 4\sqrt{2} \rightarrow S = \frac{1 \times 2 \times 4\sqrt{2}}{2} = 12$$

$$\frac{1}{u} + \frac{1}{u+a} = \frac{1}{p} \rightarrow \frac{u(u+a) + u}{p(u+a)} = \frac{1}{p} \rightarrow u^2 + au + u = u^2 + au + 1 \rightarrow 1 = u$$

$$u^2 - 3(u-1) = 0 \rightarrow (u+3)(u-1) = 0 \rightarrow u = 1$$

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

$$\sqrt{n+1} \left(\frac{-2\sqrt{n-1}}{10-n} \right) = \sqrt{n-1} \Rightarrow -2\sqrt{n+1} = 10-n \xrightarrow[n \geq 10]{\text{نفاذ}}$$

$$n^2 - 24n + 94 = 0 \rightarrow n = 12 \pm 4\sqrt{3} \rightarrow \boxed{12 + 4\sqrt{3} \quad \text{ق ق}}$$