

$$f(n) = \left(\frac{1}{p}\right)^{n-1} - 1 \quad y = \sqrt[n]{f(n+1)} \quad \text{بسط } Dy \text{ را در } n \text{ در } 0$$

$$f(n+1) = \left(\frac{1}{p}\right)^{n-1+1} - 1$$

$$\frac{n^p (p^{1-n} - 1)}{0} \gg 0 \quad p^{1-n} = 1 \quad 1-n=0 \quad n=1 \quad \frac{0}{-p+p} = 0$$

$$Dy = [0, 1] \text{ پاسخ}$$

$$f(n) = \sqrt{n+1} + 1$$

$$f(-n) = \sqrt{-n+1} + 1$$

$$\frac{p}{-n-n+2} \mid \frac{-n+n+1}{-2n+2}$$

$$\frac{p}{-2n+2} \mid \frac{-2}{-2n+2}$$

$$\frac{p}{-2n+2} \mid \frac{-2}{-2n+2}$$

$$\frac{p}{-2n+2} \mid \frac{-2}{-2n+2}$$

$$Df_{(-n)} = ?$$

$$-2n+2 \gg 0$$

$$-2(n-1) \gg 0$$

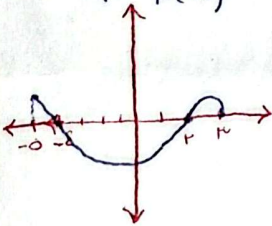
$$n=1 \quad \frac{1}{+p} \rightarrow Dy = (-\infty, 1] \text{ پاسخ}$$

$$y = \sqrt{\frac{n-1}{f(n)}}$$

$$Dy = ?$$

$$n-1=0 \quad (n=1)$$

از سمت چپ و راست به سمت راست و چپ



$$y=0 \text{ if } n=0, \epsilon, 2, 3, \dots$$

$$Dy = (-\epsilon, 1] \cup (2, 3) \text{ پاسخ}$$

$$Dy_i = Dy_r$$

$$\sqrt{-(a+b)} = ?$$

$$\sqrt{-(a+b)} = \sqrt{-\frac{a+b}{2}}$$

$$\frac{p}{2} \mid \frac{-a+b}{2}$$

$$\frac{b-a}{2} = -1$$

$$y_i = \frac{1}{9n^2 - 4m^2 - 2n - 1}$$

$$9n^2 - 4m^2 - 2n - 1 = 0$$

$$y_r = \frac{1}{9m^2 + 4n + b}$$

$$(9m^2 - 4n^2 + 1) - (m^2 + 4n + b) = 0$$

$$(8m^2 - 4n^2 + 1 - b) - (m^2 + 4n + b) = 0$$

$$f(n) = m^2 + n$$

$$y = \sqrt{m^2 - n - \left(\frac{4\epsilon}{m^2} + \frac{\epsilon}{m}\right)}$$

$$y = \sqrt{f(n) - f\left(\frac{\epsilon}{m}\right)}$$

$$y = \sqrt{\frac{1}{m^2} (m^4 - 4\epsilon) + \frac{1}{m} (m^2 - \epsilon)}$$

$$Dy = ?$$

$$y = \sqrt{\frac{1}{m^2} (m^2 - \epsilon) (m^2 + 4 + \epsilon m^2) + \frac{1}{m} (m^2 - \epsilon)}$$

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

$$Dy = [-1, 0) \cup [2, +\infty)$$

$$\Delta < 0 \quad b^2 - 4ac < 0$$

$$f(x^p + x) = x^{p^2} - 1$$

$$f(r) + f(10) = ?$$

$$\begin{array}{lll} a^\mu + u = r & f(r) = r - 1 \leq 1 & f(1) = 1 - 1 = 0 \\ \textcircled{f(a)} & a^\mu + u = 1 \rightarrow u = r & 0 + 1 = \textcircled{1} \end{array}$$

$$f(r) = a^r - 4mr + 12n + 1 - 1 \rightarrow (a-r)^r + 1$$

$$g(u) = \alpha u^k + \beta u + \gamma v u + \gamma v - \gamma v$$

$$g(u + v)^k - \gamma v$$

$$\frac{g(\sqrt[n]{v} - 1)}{f(\sqrt[n]{v} + 1)}$$

$$\frac{(\sqrt{v} - \cancel{r} + \cancel{p})^{\mu} - r_0}{(\sqrt{r} + \cancel{p} - \cancel{p})^{\mu} + 1} \leq \frac{v - r_0}{r + 1} \leq \frac{-r_0}{1_0} \leq -r$$

$$f(x) \leq \sqrt{x + \epsilon} \sqrt{x - \epsilon}$$

$$\frac{a+b}{c} \rho \quad \frac{y+0}{-z} \rightarrow -\frac{1}{P} \leftarrow \text{eye}$$

$$g(n) = \sqrt{n - \varepsilon \sqrt{n - \varepsilon}}$$

$n \geq \varepsilon$

$$f(u) = \sqrt{u - \varepsilon + \varepsilon \sqrt{u - \varepsilon}} + \varepsilon \sqrt{(\sqrt{u - \varepsilon} + r)^2 + \sqrt{u - \varepsilon} + r}$$

$$g(n) = \sqrt{n - \varepsilon - \varepsilon \sqrt{n - \varepsilon}} + \varepsilon \sqrt{(\sqrt{n - \varepsilon} - r)^2 + \sqrt{n - \varepsilon} - r}$$

$$f(x) + g(x) = a + b\sqrt{x+c}$$

$$\sqrt{n-\varepsilon} + \gamma_+ \sqrt{n-\varepsilon} - \gamma_- \sqrt{n-\varepsilon} \rightarrow \begin{matrix} a=0 \\ b=\gamma \\ c=-\varepsilon \end{matrix}$$

$$f(n) = \frac{n+1}{n! - (n+1)}$$

$$ID_f \subseteq \mathbb{R} - \{1, r\}$$

$$f(0) = \frac{r}{\mu} \quad f(r) = \frac{\epsilon}{-1} = -\epsilon$$

$$f(r) = \frac{\epsilon}{-1} = -\epsilon$$

$g(u) = \left\{ \underbrace{(1,1), (1,0)}_{\alpha \neq \beta}, \underbrace{(2,0), (0,2)}_{\alpha \neq \beta} \right\} \rightarrow (0,2), (2,0)$ تفاوتی داریم

$$\frac{g}{f} \Rightarrow \left\{ \left(0, \frac{\epsilon}{\frac{1}{\mu}} \right), \left(1, \frac{1}{\epsilon} \right) \right\} \rightarrow \left\{ (0, 4), \left(1, \frac{1}{\epsilon} \right) \right\}$$

$$f(x) = \{(1, 2), (3, -1), (5, 2), (1, 4)\}$$

gives $\{(-2, 2), (1, -1), (2, 2), (-1, 0)\}$

$$f_{\text{ring}} = \left\{ \left(\frac{1}{r}, r \right), \left(\frac{r}{r}, -1 \right), (r, r), \left(-\frac{1}{r}, r \right) \right\} \quad f_{\text{curve}} = \left\{ (-1, r), (+1, r), (+\sqrt{r}, -1), (-\sqrt{r}, -1), (+r, r), (-r, r) \right\}$$

$$p, r(a) + 1 = \{(-2, 19), (1, 4), (9, 9), (-1, 1)\} \quad \frac{18}{9} = \{(1, -4), (4, -1)\}$$

210