

$$y = -\frac{1}{r}x^r + \frac{r}{a}x + 1 \quad \text{at} \quad \frac{-b}{1a} = \frac{-\frac{r}{a}}{-\frac{1}{r}} = \frac{r}{a}$$

$$b(n-\varepsilon)^r + r = g(n) \quad -\frac{1}{r}(n-\varepsilon)^r + r = -\frac{1}{r}n^r + \frac{r}{a}n + 1 = -\frac{r}{ra}n + \frac{r}{ra}n + \frac{r}{ra} = \frac{r}{ra}$$

$$\frac{1}{ra}(-an^r + rn + 1a) \quad + \frac{1 \pm \sqrt{4\varepsilon - 2a}}{r} = \frac{n \pm \sqrt{r}}{r} \quad \frac{1}{r}(n-r)(n-1)$$

$$a(n-r)^r + 1/r = \frac{1}{r}(n-r)^r + 1/r \quad \frac{r}{r} = n-r \quad \frac{1}{r}(n-r)^r$$

$$y = y + 1/r$$

$$y = 1 - 2r(rn+r) \quad \alpha B \rightarrow \frac{1}{r}x - r = \frac{r}{r}$$

$$f(n) \rightarrow K(n-1)^r + \varepsilon \xrightarrow{n=1 \rightarrow f(n)=0} K + \varepsilon = 0 \rightarrow K = -\varepsilon$$

$$f(rn+r) \rightarrow -(rn+r)^r + r(rn+r) + r \rightarrow -(9n^r + \varepsilon + 12n) + 6n + \varepsilon + r \rightarrow -9n^r + \varepsilon + 6n + r$$

$$y = 1 - 2(-9n^r + 6n + r) \rightarrow 1 + 18n^r + 12n - 4 \rightarrow 18n^r + 12n - 3 \quad \text{at} \quad \frac{-b}{1a} = \frac{-12}{18} = -\frac{2}{3}$$

$$y = r - \sqrt{2n} \quad \ominus \text{C} \rightarrow r - \sqrt{2(n+1)} \quad \text{at} \quad r - \sqrt{2n+r} \rightarrow r - \sqrt{2n+r} + a = \frac{r}{r}$$

$$r - \sqrt{2n+r} + a = \frac{r}{r} = -\sqrt{2n+r} + 1 \rightarrow V = -2\sqrt{2n+r} + 14$$

$$\Rightarrow \frac{11}{r} = -2n+r \rightarrow \frac{11-14}{r} = -2n \rightarrow \frac{-3}{r} = -2n \rightarrow \frac{-3}{r} = \sqrt{2n+r}$$

$$y = f(n-1) + g(n+1) \quad D_g = [-1, b) \quad D_f = (a, \varepsilon]$$

$$a < x \leq \varepsilon \quad -1 \leq n < b$$

$$a-1 < n-1 \leq \varepsilon \quad 0 \leq n+1 < b+1$$

$$a-1 = -2 \quad b+1 = a$$

$$a = -1 \quad b = \varepsilon$$

$$a-b \rightarrow -1-\varepsilon = -a$$

$$n=a \rightarrow f\left(\frac{n}{r}+1\right) = f\left(\frac{a}{r}\right)$$

$$n=-r \rightarrow f\left(\frac{n}{r}+1\right) = f\left(-\frac{r}{r}\right)$$

$$g(n) = \sqrt{12f(n)-1} \Rightarrow D_g = D_f = \left[-\frac{1}{r}, \frac{r}{r}\right]$$

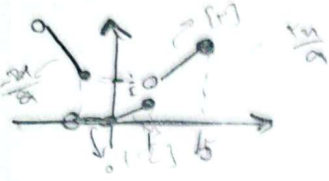
$$-1 < y_1 < r \quad \text{تغییر ک در برشهای دیگر}$$

$$-2 < ry_1 < \varepsilon \rightarrow -a < ry_1 < 1$$

$$\rightarrow 0 \leq 12y_1 - 1 < a \rightarrow 0 \leq \sqrt{12y_1 - 1} < \sqrt{a}$$

$$R_g = [0, \sqrt{a}]$$

$$y = \frac{n}{a} [an]$$



$$0 < an < 1 \rightarrow 0 \leq n < \frac{1}{a} \text{ جزء } [an] = 0 \rightarrow \frac{1}{a} < n \leq 0 \rightarrow [an] = 0$$

$$1 < an < 2 \rightarrow \frac{1}{a} < n \leq \frac{2}{a} \rightarrow d = \frac{n}{a} \rightarrow a < 0$$

$$[an] = 1 \quad A\left(\frac{1}{a}, \frac{1}{2}\right) \rightarrow \frac{\frac{1}{a}}{2} = \frac{1}{2a}$$

$$an = 2 \rightarrow a = \pm 2 \rightarrow a = -2$$

$$(a < 0)$$

$$y = \frac{n}{-2} [-2n] \rightarrow b = \frac{1}{-2} \times \frac{1}{-2} = 1$$

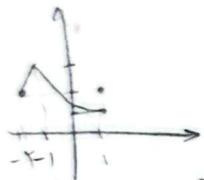
$$b - a = 1 + 2 = 3$$

$$f(n) = \log_p n \xrightarrow{\text{مشتق}} \log_p n + 1 \xrightarrow{\text{مشتق}} -\log_p n + 1 \xrightarrow{+3} -\log_p n + 4$$

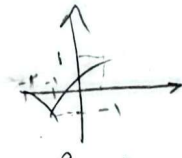
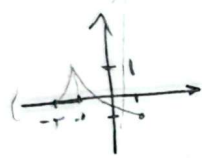
$$g(n) = -\log_p n + 4 \quad g(-12) = -\log_p 12 + 4 \rightarrow -2 + 4 = 2$$

$$g(-4) = -\log_p 4 + 4 \rightarrow -2 + 4 = 2 \quad -2 + (-1) = -3$$

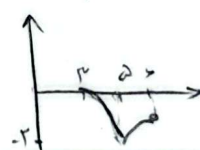
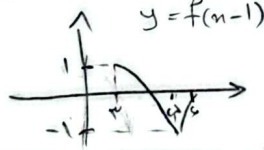
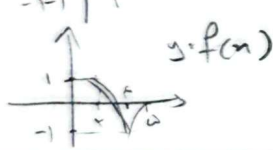
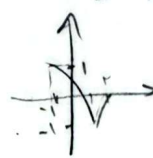
$$y = f(x-n)$$



$$y = -f(x-n) \quad y = f(x-n)$$



$$y = f(n+r)$$



$$y = f(n-1) - 1$$

$$f(n) = \left| \frac{n+1}{2n+1} \right| \xrightarrow{\text{مشتق}} \left| \frac{n-2+1}{2(n-2)+1} \right| \xrightarrow{\text{مشتق}} \left| \frac{n-1}{2n-3} \right| + 1$$

$$x \rightarrow n \in (-\infty, -\sqrt{2})$$

$$n + \left| \frac{n-1}{2n-3} \right| + 1 < 0 \rightarrow \left| \frac{n-1}{2n-3} \right| < -(n+1) \rightarrow \frac{n-1}{2n-3} < -(n+1) \rightarrow \frac{n-1}{2n-3} < 0$$

$$9$$

$$y = n^x$$

$$g(n) = \sqrt{2n f(n) - f(n)}$$

$$\frac{-1}{-1+1} = \frac{1}{0}$$

$$f(n) = (n-2)^x + 2x \rightarrow \text{مشتق}$$

$$Dg = [1, 2]$$

$$g(n) = \sqrt{2n f(n) - f(n)} \rightarrow g(n) = \sqrt{-f(n)(f(n)-n)}$$

$$f(n) = 2x \rightarrow n = 2x$$