

$$y = -\frac{1}{r}x + \frac{r}{\delta}x + 1 \quad -\frac{1}{r}\left(\frac{r}{\delta}\right) + \frac{r}{r\delta} + 1 = \frac{r\delta}{r\delta} + \frac{r}{r\delta} = \frac{r\delta}{r\delta}$$

Gizem

$$m = -\frac{b}{a} = -\frac{\frac{r}{\delta}}{-\frac{1}{r}} = \frac{r}{\delta} \quad y = \frac{1}{r}\left(x - \frac{r}{\delta}\right) + \frac{r\delta}{r\delta}$$

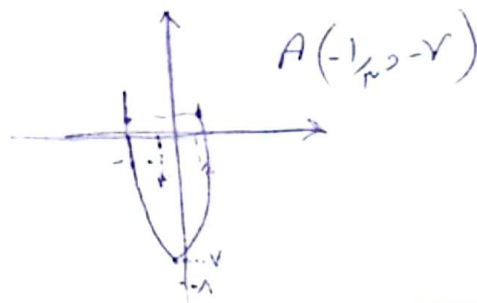
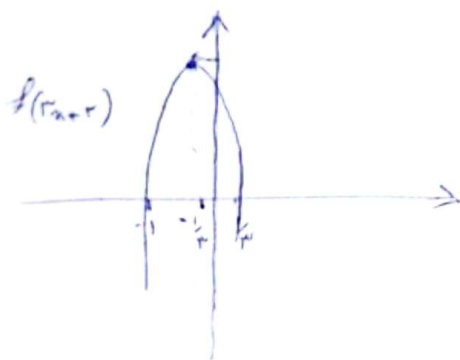
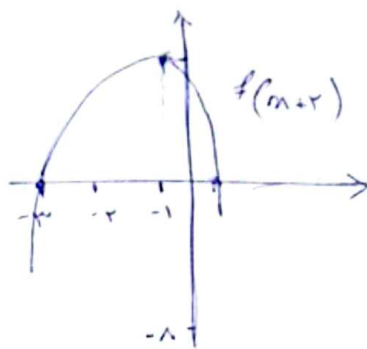
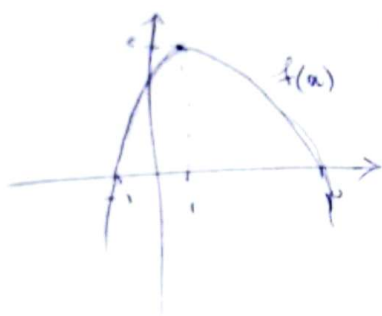
$$y = \frac{1}{r}(x - r) + r$$

$$-\frac{1}{r}(x - r) + r = (x - r) = 9 \quad m = r + r$$

$m = 1$
 $m = \sqrt{1}$

$$y = 1 - r f(r_{n+r}) = r - r f(r_{n+r}) + 1$$

(1) (2) (3) (4)



$$y = r - \sqrt{r}m$$

$$y = \sqrt{r}m + r + r$$

$$\sqrt{r}m + r + r = \frac{r}{r}$$

$$r - \sqrt{r}(n+1) \rightarrow -r + \sqrt{r}m + r + r$$

$$\sqrt{r}m + r + r = \frac{r}{r}$$

$$\sqrt{r}m + r = \frac{r}{r}$$

$$m = \frac{1}{r}$$

$$r_{m+r} = \frac{r}{\epsilon}$$

$$r_m = \frac{r}{\epsilon} - \frac{1}{\epsilon}$$

$$r_m = \frac{1}{\epsilon}$$

$m = \frac{1}{r}$

~~$r < m < \delta$~~

~~$D_f = [a, b]$~~



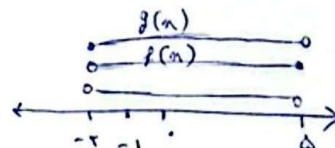
~~$D_f = [1, b]$~~

$$-r < m < \delta$$

$$D_{f(n-1)} \cap D_{f(n+1)} = (-r, \delta)$$

$$D_f = a/m < f$$

$$a < m-1 \leq r \rightarrow a+r < m \leq \delta$$



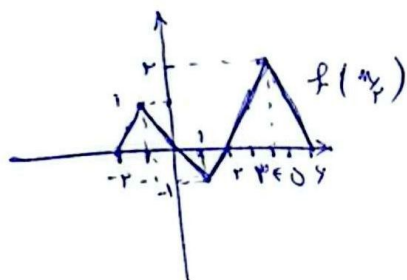
$$-1 \leq m+1 < b - r/m < b-1$$

$$b-1 = \delta$$

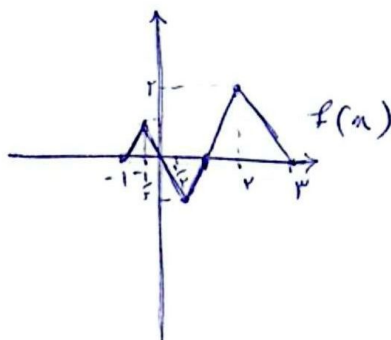
$$b = 4$$

$$a-b = -r-(4) = -4$$

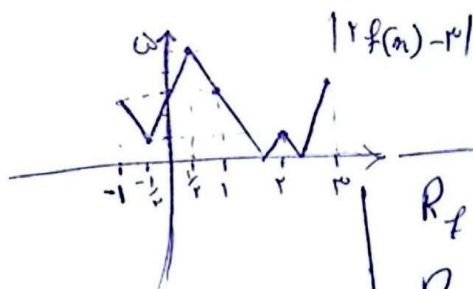
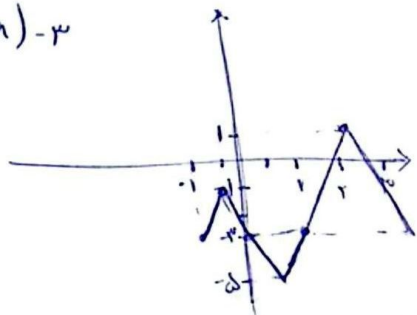
$$a+1 = -r \quad a = -r-1$$



$\Rightarrow$



$$r f(n) - r$$



$$\sqrt{|r f(n) - r|}$$

$$\Rightarrow |r(f(n) - 1)| \geq$$

$$R_f = [1, \delta]$$

$$D_f = [-1, r]$$

$$y \frac{n}{a} [a_n]$$

add

~~$y \frac{n}{a} [a_n]$~~

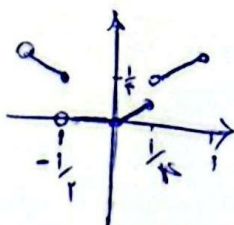
$$a = \varepsilon$$

$$|1-r| = -r$$

~~$y \frac{n}{a} [a_n]$~~

$$y \frac{n}{a} [a_n]$$

~~$y \frac{n}{a} [a_n]$~~



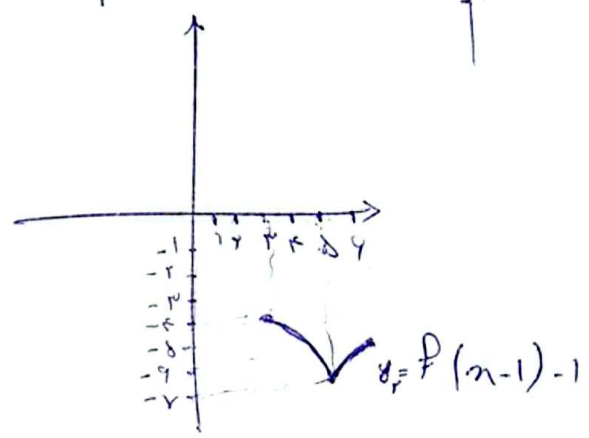
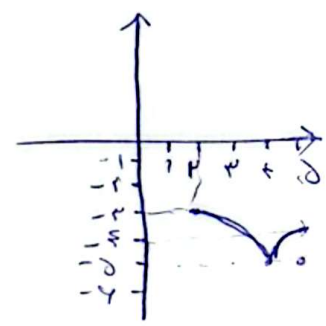
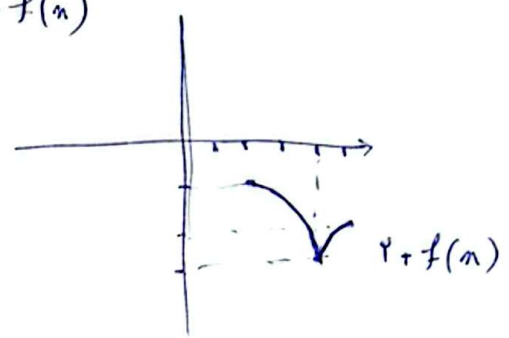
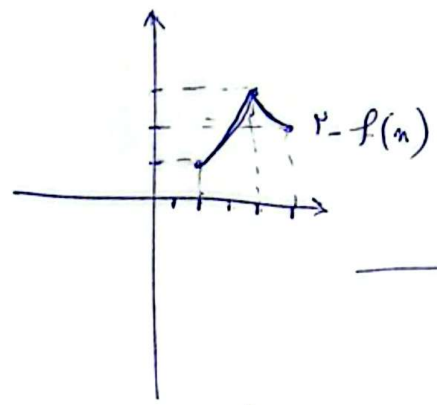
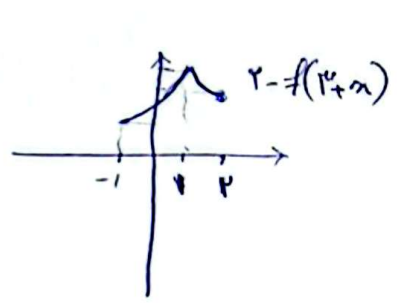
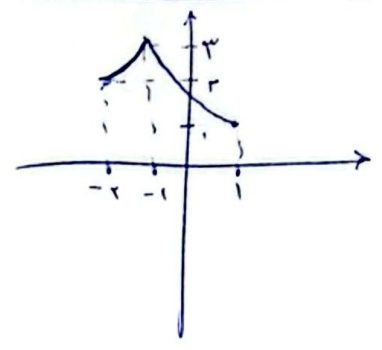
$$f(n) = \log_r^n \rightarrow \log_r^{n+r} \rightarrow -\log_r^{n+r} \rightarrow -\log_r^{n+r} + r$$

$$L(n) = -\log_r^{n+r} + r \quad g(1+r) + g(-4r) = -\log_r^{(1+r)r} - \log_r^{(-4r)r} + r =$$

$r + r - 4 + r = -r$

$$y = r - f(r-n) \quad -r \leq r-n \leq 1 \quad -\delta \leq -n \leq -r \quad r \leq n \leq \infty$$

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



$$f(n) = \left| \frac{n+1}{r_{n+1}} \right| \quad \left| \frac{(n-r)+1}{r(n-r)+1} + 1 \right| \Rightarrow \left| \frac{n-1}{r_n - r} + 1 \right|$$

$$\left| \frac{n-1+r_n-r}{r_n-r} \right| = \left| \frac{r_n-r}{r_n-r} \right| \quad \left| \frac{r_n-r}{r_n-r} \right| < n$$

$$\begin{aligned} \frac{-r_n+r}{r_n-r} < n & \quad -r_n+r < r_n-r \\ \frac{r_n-r}{r_n-r} < n & \quad -r(n-r) < \frac{-r}{1-1} \\ \frac{r_n-r}{r_n-r} < n & \quad -r_n+r < r_n-r \end{aligned}$$

$$-2x^2 + 4x - 4 < 0 \quad -r(n^2 - r) < 0 \quad n^2 - r > 0$$

$$(n - \sqrt{r})(n + \sqrt{r}) > 0$$

$$\frac{-\sqrt{r} \quad \sqrt{r}}{+ \quad - \quad +}$$

$$-2x^2 + 4x - 4 < 0 \quad (n - r)(n - 1) < 0$$

$$\frac{1 \quad 2}{+ \quad - \quad +}$$

اقتضا $(\sqrt{r}, r)$

$$(1, r) \cap (-\infty, -\sqrt{r}) \cup (\sqrt{r}, +\infty) = \overline{(\sqrt{r}, r)}$$

$f(n)$

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

$$f(n)(r_n - f(n)) \geq 0$$

$$\frac{\cdot \quad r_n}{- \quad + \quad -}$$

$$D_{f(n)} = [0, r_n] \rightarrow \dots$$

~~$f(n) \rightarrow \dots$~~

~~$f(n) \rightarrow \dots$~~

$$f(n) \leq r_n \quad D_g = [0, r]$$

$$D_g | x \in \mathbb{Z} = \{0, 1, 2\}$$

~~$f(n) \leq r_n$~~
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