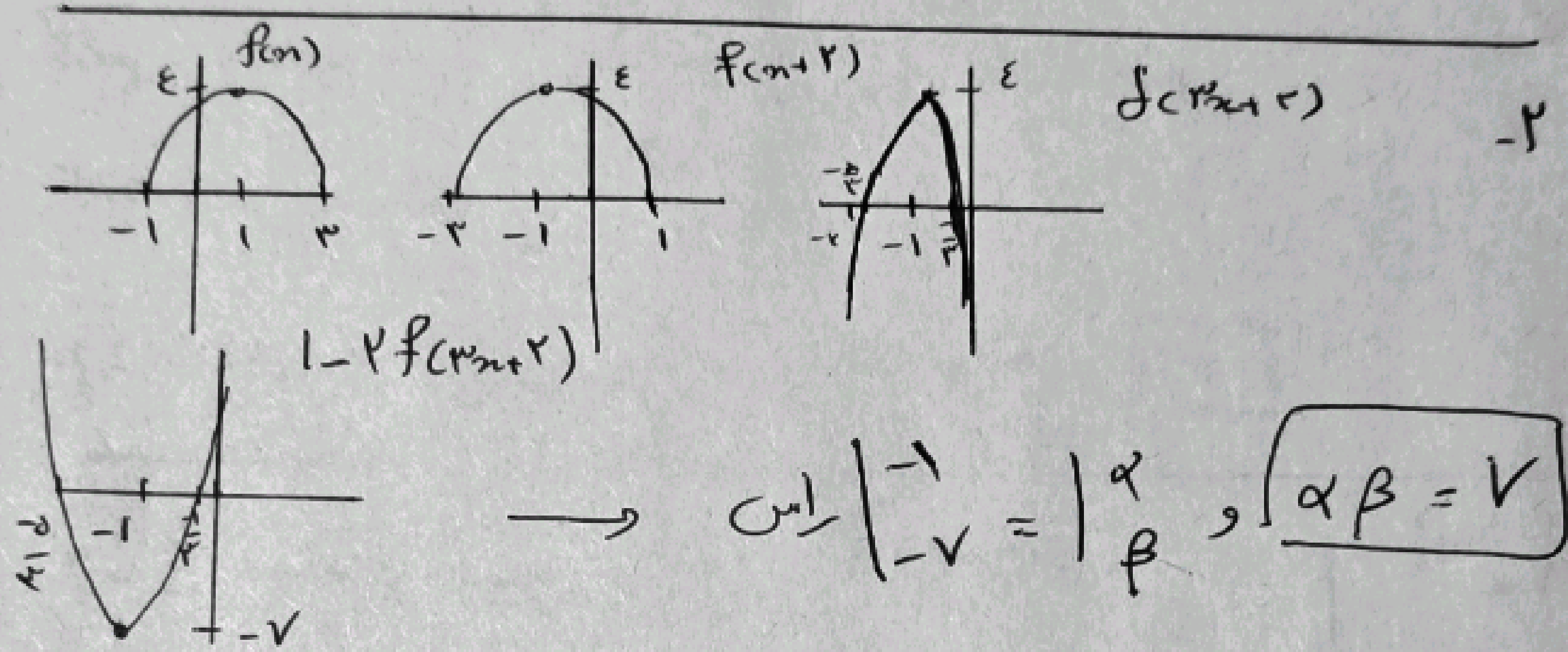


-1



$$x - \sqrt{x} \rightarrow x - \sqrt{x+1} = x - \sqrt{x+1} \rightarrow -x$$

$$-x + \sqrt{x+1} \rightarrow -x + \delta + \sqrt{x+1} = x + \sqrt{x+1}$$

$$f(x) = \frac{1}{x} = x + \sqrt{x+1} \Rightarrow \frac{1}{x} = x + \sqrt{x+1} \Rightarrow \boxed{x = \frac{1}{\delta}}$$

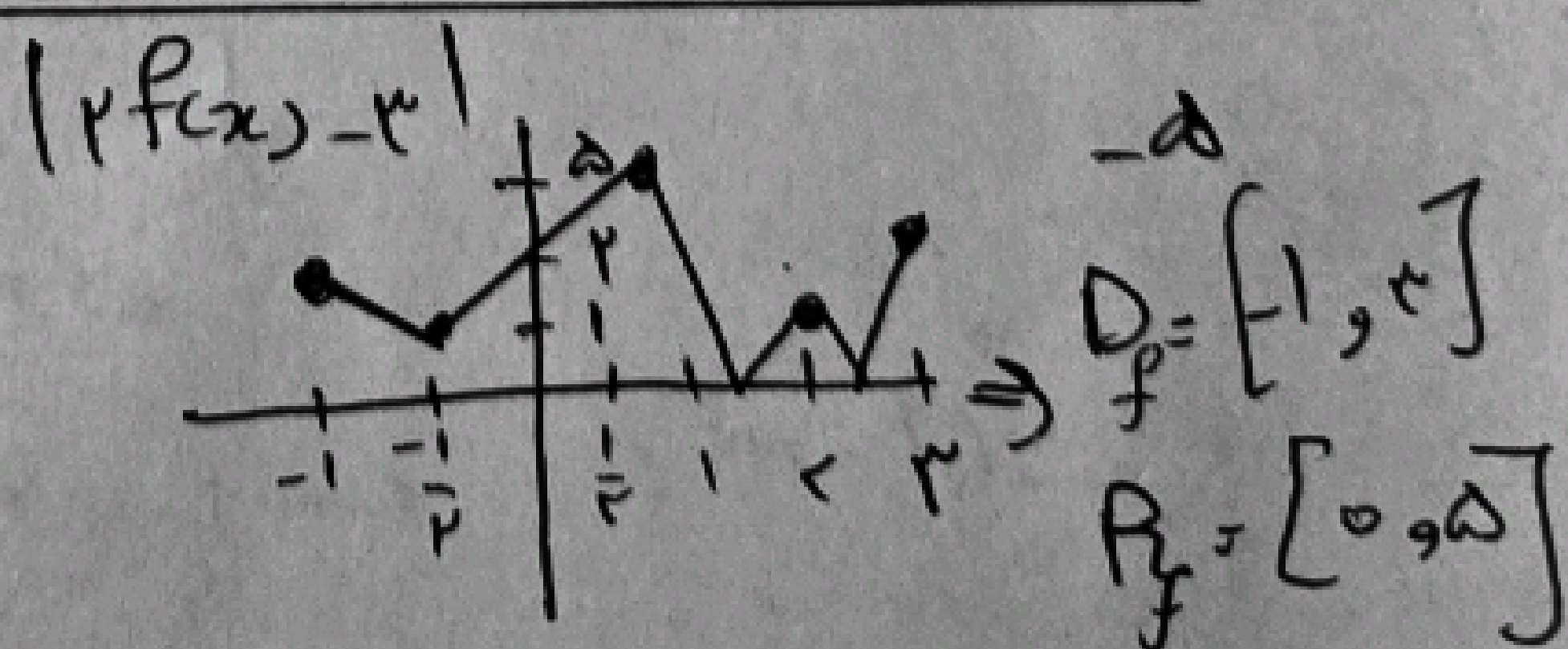
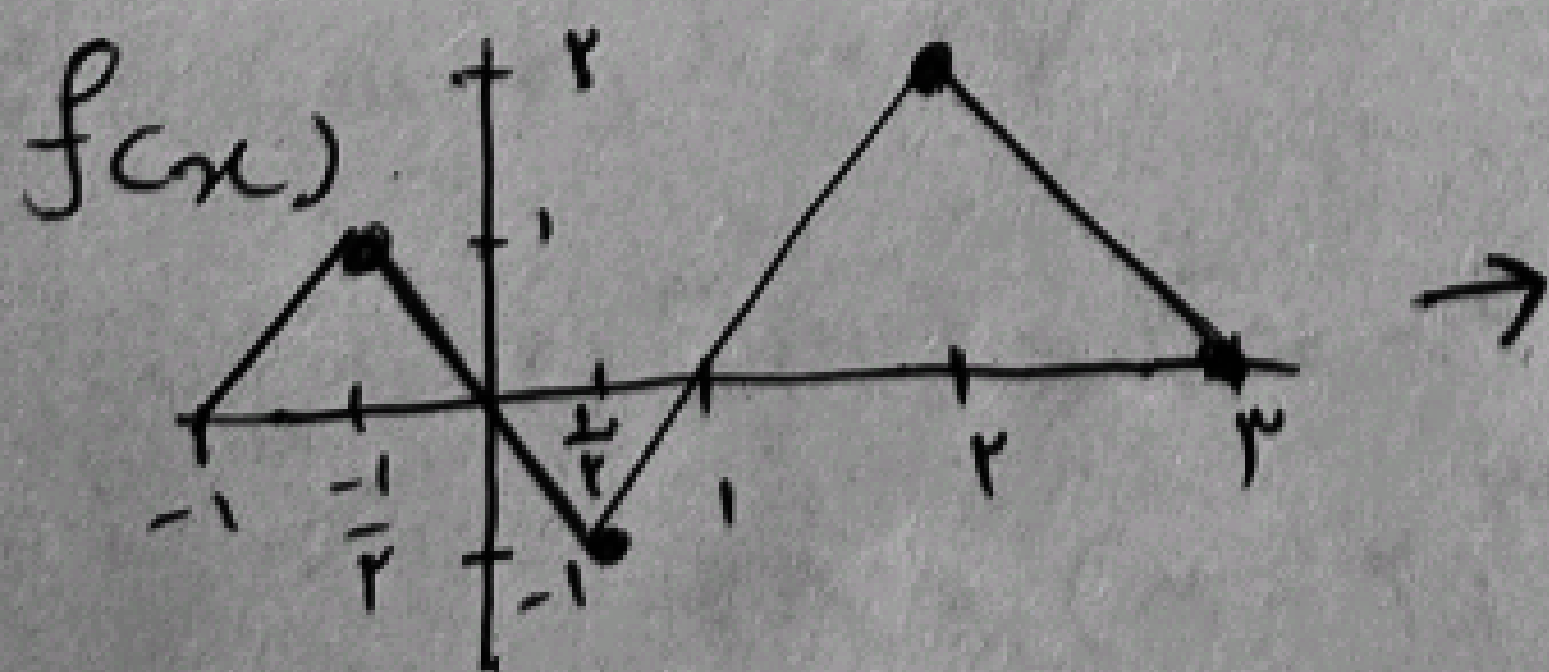
$$y = f(x-1) + g(x+1), \quad D_{f(x-1)} = (a+1, \delta], \quad D_{g(x+1)} = [-1, b-1]$$

$$D = (-1, \delta)$$

$$D = D_{f(x-1)} \cap D_{g(x+1)} \Rightarrow a+1 = -1 \Rightarrow a = -2$$

$$b-1 = \delta \Rightarrow b = \delta + 1$$

$$\Rightarrow a - b = -2 - (\delta + 1) = \boxed{-3 - \delta}$$



$$\log_r^2 \rightarrow \log_r^{x-r} \rightarrow -\log_r^{x-r} + r \Rightarrow$$

-v

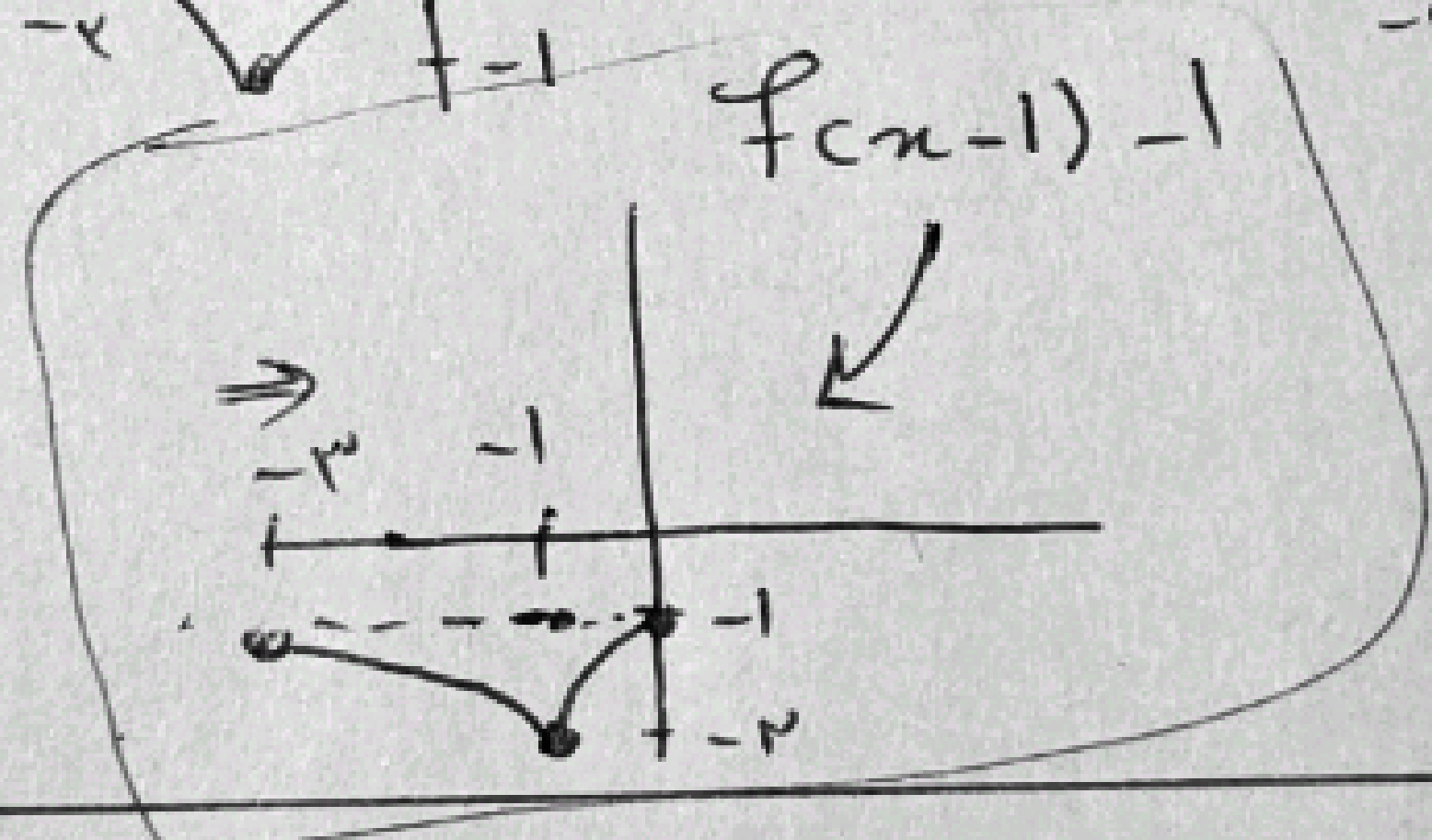
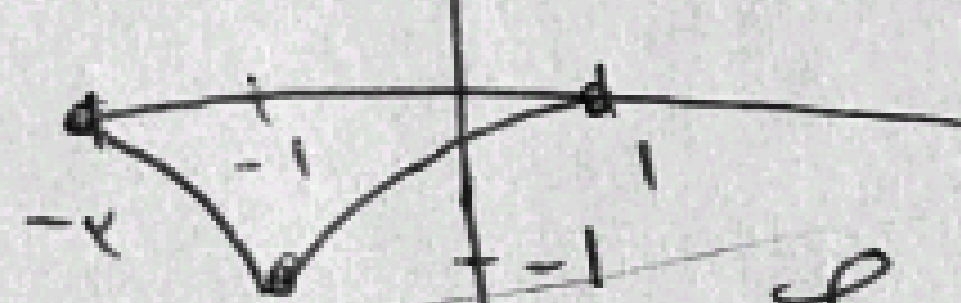
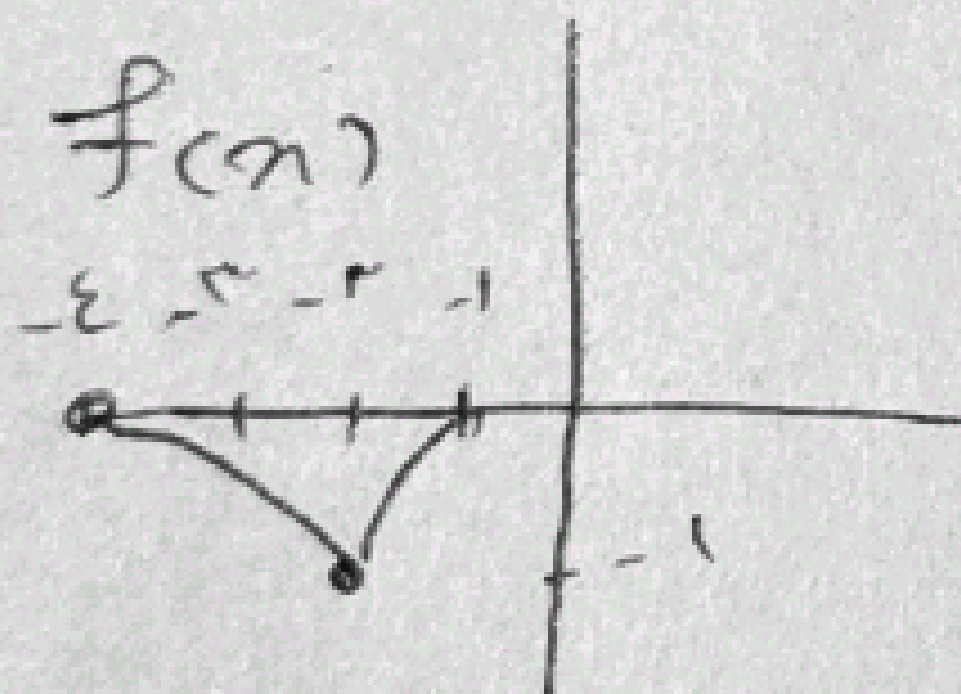
$$g(x) = -\log_r^{x-r} + r$$

$$g(-1\varepsilon) + g(-4\varepsilon) = r + 9 = \boxed{14}$$

$$r - f(r-x) \rightarrow$$

$$f(r-x)$$

$$f(x) - 1$$



$$\left| \frac{x-1}{r(x-r)} \right| + 1 \rightarrow x+1 + \left| \frac{x-1}{r(x-r)} \right| < 0 \rightarrow$$

-9

همواره به یکدیگر نزدیک می شود

$$x+1 < 0 \rightarrow x < -1$$

$$y' = (x-r)^r + rv$$

-10

$$r \wedge ((x-r)^r + rv) \geq ((x-r)^r + rv)$$

$$\boxed{r \geq x}$$

$$r \wedge \geq (x-r)^r + rv \rightarrow 1 \geq (x-r)^r \rightarrow 1 \geq x-r$$