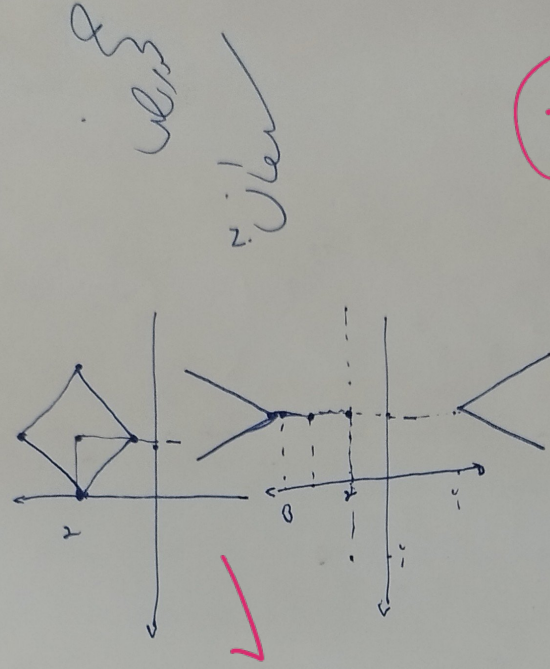


1) $|x-r| + |y-1| = r$

$\left. \begin{array}{l} x < r \\ y < 1 \end{array} \right\} \rightarrow y = x+r$
 $\left. \begin{array}{l} x > r \\ y > 1 \end{array} \right\} \rightarrow y = x-r$

2) $|x-1| + |y-r| = 1$

$\rightarrow |x-1| - |y-r| = r$



1) $y = rx + |ax+b|$

$x > -\frac{b}{a} \rightarrow (r+a)x+b$
 $x < -\frac{b}{a} \rightarrow (r-a)x-b$

$|a| < r \rightarrow \text{acc}$
 $(r+a)x+b = (r-a)x-b \rightarrow 2ax + r = 0$

$[+\infty, -\infty] - \left\{ \begin{array}{l} \text{حالی} \\ \text{خط} \\ \text{افقی} \end{array} \right\}$
 $(r+a)x+b = (r-a)x-b$
 $2ax + r = 0$

این نسب خوفها علامت یابد

1) $|c| < |d|$

$\left| \frac{r+1}{ax+c} \right| < 1 \rightarrow -1 < \frac{r+1}{ax+c} < 1$
 $(ax+r+c)(x-ax-r) < 0 \rightarrow a < 1 \rightarrow b < -r \rightarrow 1-(-r) = r$

$\frac{r+1}{ax+c} - 1 = \frac{ax+r}{ax+c}$
 $\frac{r+1}{ax+c} + 1 > 0 \rightarrow \frac{(a+1)r+c}{ax+c} > 0$
 $a+1 = r \rightarrow a = r$

$\begin{cases} (a+1)b = -r \\ (-a+1)b = r \end{cases}$

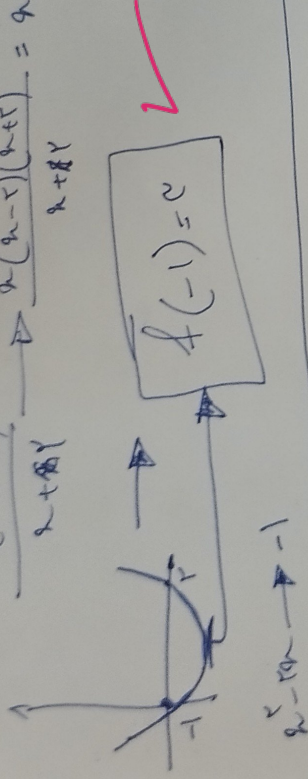
$$(1) f(x_{n+1}) + f(x_n) = c x_n + f(c) \xrightarrow{\text{if } x=1} f(c) = c$$

$$(2) a x_n + b \xrightarrow{\text{if } x=1} R_f = [0, \frac{1}{c}] \quad \checkmark$$

$$(1) f(x) = \frac{x^c - \varepsilon x}{x + \varepsilon} \quad R = \{a, b\} \quad n(x-r) = \lambda$$

$$(2) \frac{[c, +\infty) - \{1\}}{x(x-\varepsilon)} \xrightarrow{a(x-r)(x+\varepsilon) = n(x-r)} a, b = -\varepsilon, \varepsilon$$

$$C = -1$$



$$(1) \int_c^x (c + ax + bx^2 - 1) \xrightarrow{a=-\varepsilon} \int_c^x (x-r)^2 \xrightarrow{b=1\varepsilon} x^c - \varepsilon x^r + 1\varepsilon x - \lambda$$

$$(2) R_f = [-1, 1.0] \quad \checkmark$$

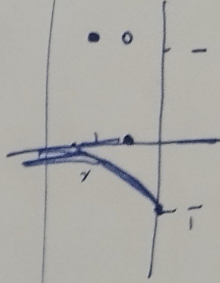
$$(1) \frac{x+1}{1-x} > 0 \xrightarrow{-1} \frac{1}{1} = 1$$

$$(2) -1 < x < 1 \quad g_r = \frac{ax^r - 1}{x^r + b} \xrightarrow{a=1} \frac{1}{b} \xrightarrow{b=1} 1$$

$$(1) \frac{|x|}{x} \cdot \frac{[x]}{x} \xrightarrow{-1 \leq x < 0} y = \frac{1}{x} - 1$$

$$\xrightarrow{0 \leq x < 1} y = 1$$

$$\xrightarrow{x=1} y = r$$



$$(1) [x] + [x + \frac{1}{x}] \quad \frac{1}{x} \leq x < 1$$

$$(2) 1 \leq x < \frac{1}{x}$$

$$\frac{1}{x} \leq x < 1 \quad \checkmark$$

