



$$f(x+1) + f(x+r) = rx + f(r) \quad \xrightarrow{r}$$

$$y = \sqrt{2x - 1 - x^2} \rightarrow y = \sqrt{2 - x^2}$$

$$R_y = \begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$$

$$\frac{b}{ka} = \frac{1}{1} = 1 \rightarrow Y(1) = 1 \cdot 1 = 1 \rightarrow R_f = \sqrt{(-1, -1)} = \phi$$

$$f(x) = \frac{x(x^2 - r)}{x + r} = \frac{x(x+r)(x-r)}{x+r} = x^2 - rx$$

$$x^2 - 1 \neq 0 \rightarrow x^2 - 1 \neq 0 \rightarrow (x-1)(x+1) \neq 0 \quad f\left(\frac{x-1}{-1}\right) = f(-1) = 1 - 1(-1) = 2$$

$$\rightarrow C \rightarrow x^r \cdot rx \rightarrow \frac{-b}{2a} \pm \frac{\sqrt{b^2 - 4ac}}{2a} \rightarrow 1 - 1 = 0 \rightarrow [1, 0] \rightarrow \boxed{C=1}$$

$$y = \sqrt[n]{x^n + ax^r + bx - 1}$$

$$P_f = [a, b]$$

$$\rightarrow y = \sqrt[n]{(n-1)^n}$$

$$y = \sqrt{x^3 - 4x^2 + 11x - 6}$$

$$a = -4$$
$$b = 12$$

$$Q_f = [-4, 12]$$

$$R_f = [-1, 1]$$

$$y_1 = \left(\frac{x+1}{1-x} \right)^{\frac{1}{\omega}} \rightarrow R - \{1\} \rightarrow D_{f_1}$$

$$y_r = \frac{ax^r - 1}{x^r + b} \rightarrow R_{fr} = R - 313$$

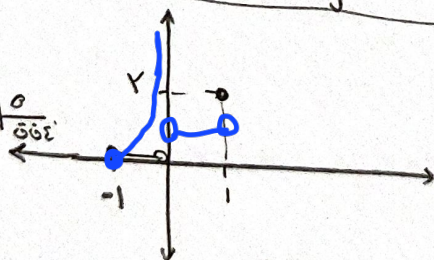
$$\hookrightarrow \frac{ax^r - 1}{x^r + b} = y^r \rightarrow x^r = \frac{-b + y^r}{y^r - a} \rightarrow x = \pm \sqrt[r]{\frac{-b + y^r}{a - y^r}}$$

$$y = \frac{[u]}{n} + \frac{|x|}{x}$$

$$-1 \leq x < 0 \rightarrow [x] = -1 \rightarrow -\frac{1}{x} - 1 = \frac{-1 - x}{x}$$

$$0.57 \times 10^{-6} \rightarrow 5.7 \times 10^{-7}$$

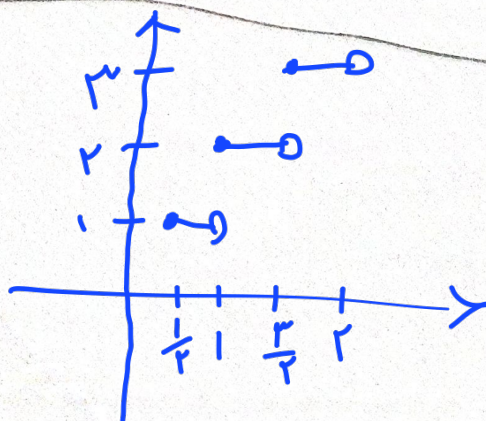
$$x:1 \rightarrow 1+1, y$$



$$y = [x] + [x + \frac{1}{r}]$$

$$\frac{1}{p} \times x < 1 \rightarrow [2]_{50}$$

$$1 \leq x \leq r \rightarrow [x]_{s1}$$



2016 ۳

در دوران های کسی پایه نباید منفی باشد.

$$\frac{a+1}{1-a} \rightarrow \theta_f = [-1, 1)$$

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

5.

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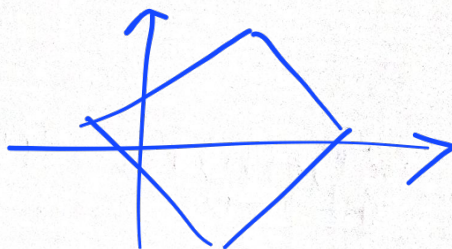
$$y = \left| \frac{x+1}{ax+1} \right| \rightarrow a=1 \quad b=-1$$

$$-1 < \frac{x+1}{ax+1} < 1 \rightarrow \frac{x+1+ax+1}{ax+1} = \frac{(a+1)x+2}{ax+1}$$

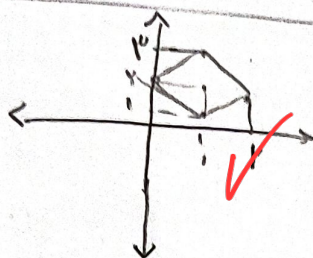
$$\frac{x+1-ax-1}{ax+1} < 0 \rightarrow \frac{(1-a)x}{ax+1} < 0$$

$$a-b=1$$

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

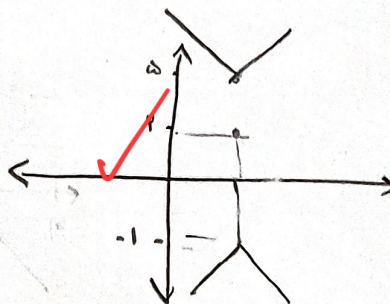


$$\text{الف) } |x-1| + |y-2| = 1$$



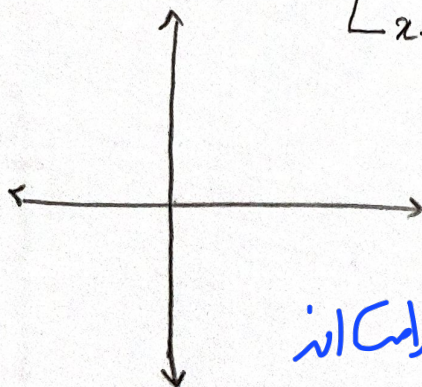
$$\text{ب) } |x-1| - |y-2| = -1$$

$$|y-2| - |x-1| = 1$$



$$y = 3x + |ax+b|$$

$$\begin{cases} x > -\frac{b}{a} \rightarrow (3+a)x + b \\ x < -\frac{b}{a} \rightarrow (3-a)x + b \end{cases}$$



$$-1 < a < 1$$

برای آنکه بر IR به سبب تابع قابل
mimry.