

$$\frac{1}{x-1} = x-1 \rightarrow (x-1)^r = 1 \rightarrow x^r + 1 - rx = 1$$

$$\frac{-1}{x-1} = x-1$$

$$x^r - rx = 0$$

$$x(x-1) = 0 \rightarrow \boxed{x = \frac{1}{2}r}$$

$$(x-1)^r = -1 \rightarrow x^r + 1 - rx = -1$$

$$x^r + 2 - rx = 0 \quad \Delta < 0$$

$$x > 0 \rightarrow -rx < rx - 1 < rx$$

$$\boxed{x > \frac{1}{r}}$$

$$x > \frac{1}{r} \cup x < \frac{1}{r} \Rightarrow$$

$$R - \left\{ \frac{1}{r} \right\}$$

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

$$\boxed{x < \frac{1}{r}} \quad -1 > -2x$$

$$\leftarrow +r$$

$$\therefore \left| \frac{x-r}{rx+1} \right| > 1 \rightarrow \frac{x-r}{rx+1} < -1 \rightarrow x-r < -rx-1$$

$$rx < +1 \quad x < \frac{1}{r}$$

$$x < \frac{1}{r} \vee x < -\epsilon$$

$$\frac{x-r}{rx+1} > 1 \rightarrow x-r > rx+1$$

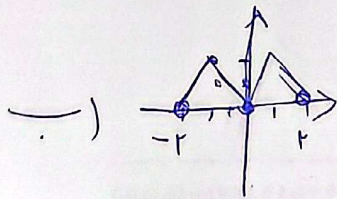
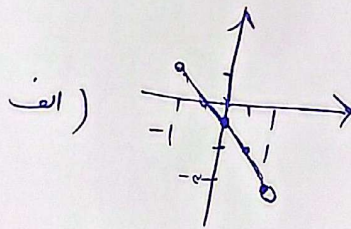
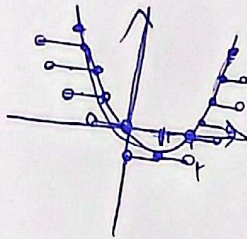
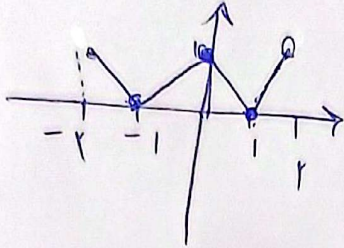
$$\boxed{x < -\frac{2}{r}}$$

$$y = \left| \frac{1}{r} x \right| - 1$$

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

$$\frac{1}{r} \left| \frac{1}{r} x \right| - 1 = \left| \frac{1}{r} (x+1) \right| - 1$$

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



$$\begin{aligned} x=1 &\rightarrow y=\infty \\ x=1 &\rightarrow y=-1 \end{aligned} \quad (v)$$

$$\begin{aligned} x=1 &\rightarrow y=0 \\ x=2 &\rightarrow y=0 \end{aligned}$$

مقدار اعشاری
1/2

$$\boxed{a = 1, 2}$$

$$[a] = 1$$

$$a + [b] = 1, 2$$

$$\begin{cases} [a] + [b] = 1 \\ [b] - [a] = 1 \end{cases} \quad 19$$

$$b - [a] = 1, 2$$

$$[b] - [a] = 1$$

مقدار اعشاری
1/2

$$2[b] = 1$$

$$[b] = 1/2$$

$$a + b = 1, 2 + 1/2 = 1, 5 \quad b = 1, 2$$

اصفهان، خیابان جی، خیابان پروین،
نرسیده به پل سرهنگ، آزمایشگاه نامن

۰۳۱۳۵۸۱۷۱۶۵

medicalsamen