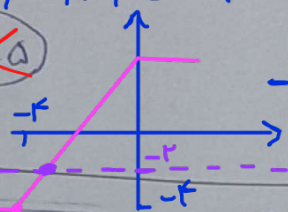


تغییرات مقادیر خود را اجرا کنید

1) $\left| \frac{1}{2}x \right| - 2 = 4$ واحد منفی $\rightarrow \left| \frac{1}{2}(x+4) \right| - 2 = 4$ واحد مثبت $\rightarrow \left| \frac{1}{2}x + 2 \right| - 1 = 4 \Rightarrow \left| \frac{1}{2}x + 2 \right| = 5$

$\rightarrow \left| \frac{1}{2}(x+4) \right| - 1 = \left| \frac{1}{2}x \right| + 2 = 0$ x^2 $\rightarrow \left| \frac{1}{2}(x+4) \right| - 1 = \left| \frac{1}{2}x \right| + 2 = 0$ $\rightarrow \left| \frac{1}{2}(x+4) \right| - 1 = \left| \frac{1}{2}x \right| + 2 = 0$ $\rightarrow \left| \frac{1}{2}(x+4) \right| - 1 = \left| \frac{1}{2}x \right| + 2 = 0$

$x+4=0 \rightarrow x=-4$



$-4 < x < 0$

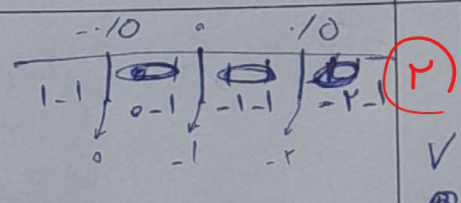
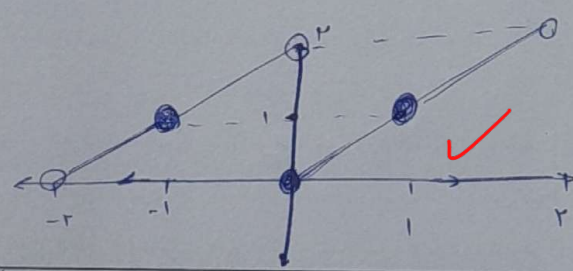
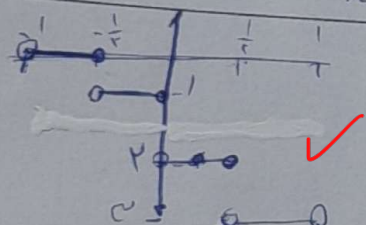
$x+4+x=-2 \rightarrow x=-3$

$1-x+x+2 = -2x-1 \rightarrow R = [-5, 5] \rightarrow \{-5, -4, \dots, 5\}$

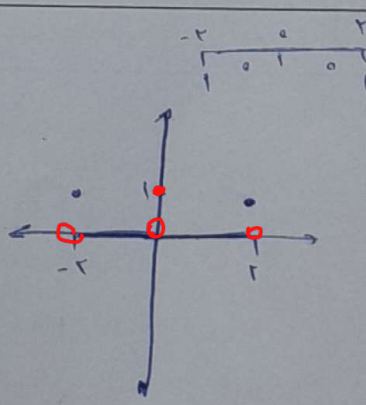
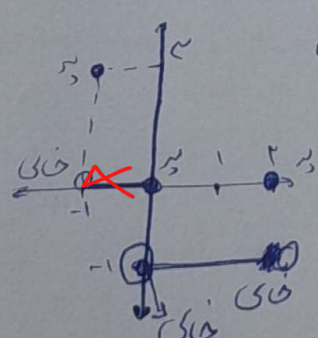
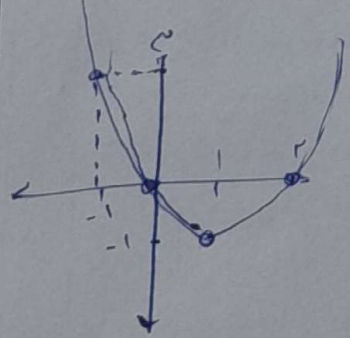
چون برابرت داریم، برد فقط شامل اعداد صحیح این بازه می باشد

تابع f واقع فرمی از $[0, 1]$ است که R از 0 تا 1 است اما تابع f از 0 تا 1 است که برد را به اندازه یک واحد کم می کند

$\frac{1}{x} - [1 + \frac{1}{x}] = \frac{1}{x} - [\frac{1}{x}] - 1 \rightarrow R = [-1, 1]$



همواره را بدون برابرت می کنیم هر کجی از عددها عبور کرد بازه را تعیین می کنیم



فرض $a = A + 1/2$, $b = B + 1/4$

$a + [b] = 4/2 \rightarrow A + 1/2 + B = 4/2 \rightarrow A + B = 4$
 $b - [a] = 2/4 \rightarrow B + 1/4 - A = 2/4 \rightarrow -A + B = 1$
 $2B = 4 \rightarrow B = 2$

$a + b = A + B + 1/2 + 1/4 = 3 + 1/2 + 1/4 = 4/4 = 1$

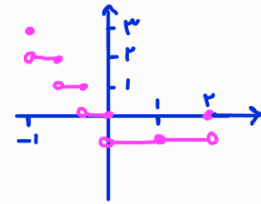
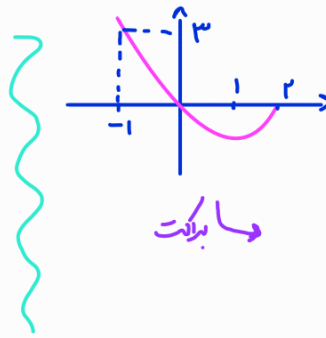
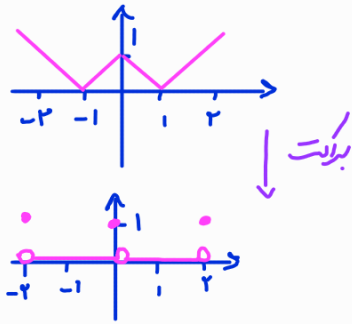
۱۰- صفر

٢ الفج

$$-2 < \frac{2n-1}{n} < 2 \rightarrow -2 < 2 - \frac{1}{n} < 2 \rightarrow -4 < -\frac{1}{n} < 0$$

$$\begin{cases} -\frac{1}{n} > -4 \rightarrow n > \frac{1}{4} \\ -\frac{1}{n} < 0 \rightarrow n > 0 \end{cases}$$

$$\rightarrow n > \frac{1}{4}$$



-٨

$$(1+\sqrt{2})^4 = 198 - (1-\sqrt{2})^4$$

-١٥

$$[(1+\sqrt{2})^4] = [198 - (1-\sqrt{2})^4] = 198 + [-\cancel{(1-\sqrt{2})^4}] = \boxed{198}$$

$[0^-]$