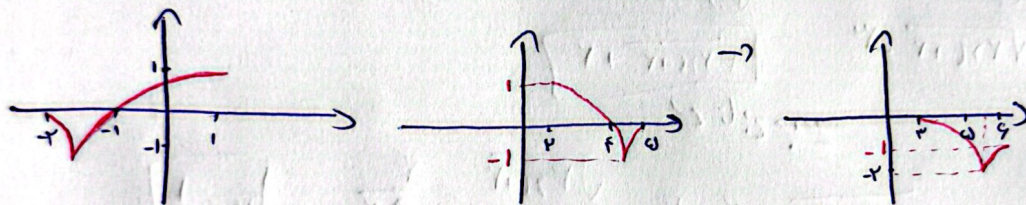


$$f(x) = \log_y x$$

$$\textcircled{1} \log_y^{x+y} \rightarrow \begin{matrix} \textcircled{2} \\ \textcircled{3} \end{matrix} -\log_y^{x+y} + 3 \rightarrow \begin{matrix} \textcircled{4} \\ \textcircled{5} \end{matrix} -\log_y^{-x+y} + 3$$

$$g(-4) = -\log_y^{-4} \quad g(-1) = -\log_y^{-(-1)+2} = -\log_y^{-1} = -\epsilon \quad -\epsilon + -\epsilon = \boxed{-10}$$

$$2 - f(2-x) \rightarrow f(2-x) \rightarrow f(x) \quad f(x-1) - 1$$



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

$$\left| \frac{x-1}{2x-3} \right| + 1 + x < 0$$

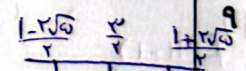
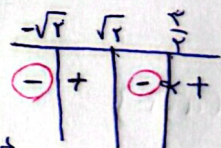
$$\boxed{x < -\sqrt{2}}$$

جواب فاقد اشتراک (۱ و ۳)

$$\textcircled{1} \frac{x-1+2x-3+2x^2-3x}{2x-3} = \frac{2x^2-4}{2x-3}$$

$$\textcircled{2} \frac{1-x+2x-3+2x^2-3x}{2x-3} = \frac{2x^2-2x-2}{2x-3}$$

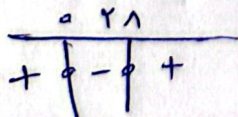
اشتراک
 $x < -\sqrt{2}$



$$f(x) = t$$

$$21t - t^2 \geq 0$$

$$t^2 - 21t \leq 0$$



$$(x-2)^3 + 1$$

کل عبارت $\rightarrow$ برای اینکه صفر شود باید در $\frac{21}{1}$ ضرب شود

$$0 \leq \frac{21}{1} (x-2)^3 + 21 \leq 21$$

$$\frac{21}{1} (x-2)^3 + 21$$

۳ عدد صحیح آوازه

$$0 \leq x \leq \frac{4}{3}$$