

A cell-

QVD

✓ $2g = \{(-1, 2), (0, 8), (2, 0), (1, 4)\}$ $3f = \{-3, 3\} \rightarrow$ برد سه برابر می‌شه نه
 $2g - 3f \rightarrow D_f \cap D_g \rightarrow \{(-1, 0), (0, 0), (1, 0)\}$ رامنه!

$$wf = \{(0, 3)(1, 0)(-1, 0)\} \rightarrow yg - wf = \{(0, 5)(1, 4)(-1, 2)\}$$

$f(u) = u-1 \rightarrow [3, +\infty)$ $g(u) = \frac{1}{u} u + 3 \rightarrow (-\infty, 3]$

$y = u-1 \rightarrow u = \frac{y+1}{1} \xrightarrow{u=3} 3 = \frac{y+1}{1} \rightarrow y = 2 \rightarrow [2, +\infty)$

$y = \frac{1}{u} u + 3 \rightarrow uy = u + 9 \rightarrow u = uy - 9 \xrightarrow{u=3} 3 = uy - 9 \rightarrow y = 2 \quad (-\infty, 2]$

$\cup \rightarrow (-\infty, 2] \cup [2, +\infty) \checkmark$

$$y = -\frac{u^2}{4} + u + 1 \rightarrow -\frac{u^2}{4} (a, b) > \frac{u}{4} \quad \sqrt{b-a}$$

$$-\frac{b}{4a} = -\frac{1}{-1} = 1 \rightarrow -\frac{1}{4} + 1 + 1 \rightarrow \frac{7}{4} \quad (a, b) \rightarrow \left(\frac{u}{4}, \frac{v}{4}\right)$$

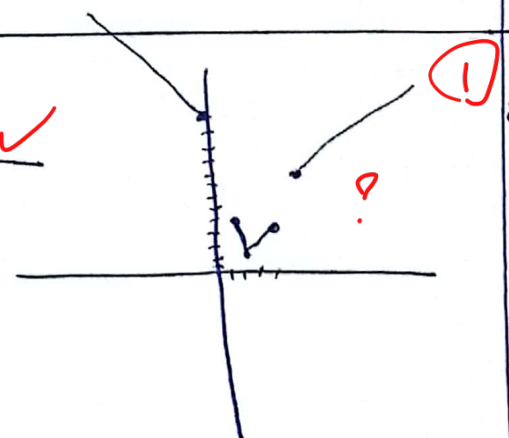
$$\sqrt{b-a} \rightarrow \sqrt{\frac{u}{4} - \frac{u}{4}} \rightarrow \sqrt{\frac{u}{4}} \rightarrow \sqrt{u} \quad \sqrt{b-a} = \boxed{u}$$

$$y = |x-1| + |x-2| + |x-3|$$

$$\begin{array}{ccccccc}
 & 1 & & 2 & & 3 & \\
 \hline
 -\varepsilon n + 1 & & -\varepsilon n + 2 & & \varepsilon n - 1 & & \varepsilon n - 1
 \end{array}$$

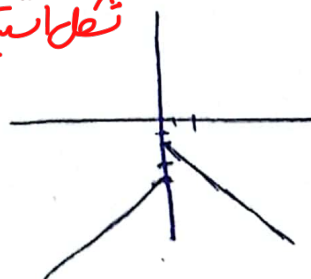
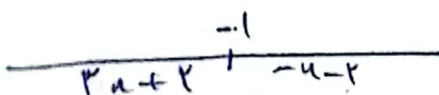
$x \in \cancel{[1, \varepsilon]} \cup \cancel{[\varepsilon, +\infty)} \rightarrow 1$

$[1, +\infty)$



$$y = |n| - 2|n+1|$$

شکل استعد



~~Handwritten scribbles and symbols, including a large 'X' and some illegible marks.~~

$$\begin{array}{r|rr} -1 & & 0 \\ \hline u+y & -u-y & -u-y \end{array}$$

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[illegible]

$f(u) = \begin{cases} u + 1 & ; u \geq u^* \text{ [dot } \infty) \\ u^* - (u + 1) & ; 0 \leq u < u^* \text{ [red)} \\ |u| + 1 & ; u < 0 \text{ [blue)} \end{cases}$

$R_F = [0, +\infty)$

$\text{red } \frac{-b}{p_a} = 1$

$f(u) = \begin{cases} u^2 + 2u + 1 & ; u \leq 0 \\ [2u] - 2u & ; u > 0 \end{cases}$

$\xrightarrow{u} [-1, +\infty)$ ✓

$$y = a + 1 - \sqrt{x + 4} \geq 0 \quad P_f = [0, +\infty) \quad R_f = (-\infty, 0] \quad (2)$$

$$x \geq -4 \rightarrow -\frac{x}{4} \leq 0 \rightarrow b = -\frac{x}{4} \rightarrow x = -4 \rightarrow a + 1 = 0 \quad ab = ?$$

$$2x - \frac{x}{4} = -7 \quad a = 8$$

$$f(u) = \sqrt{u+1} + \sqrt{1-u} \quad f(u) + g(u) = \sqrt{1+1} + \sqrt{1-1} \quad P_f = P_g \quad \underline{0}$$

$$2_f = ? \rightarrow g = \frac{f(u)}{2} - \frac{g(u)}{2} \quad P_f = 1R$$

$$\rightarrow \frac{1}{2}f(u) - \frac{1}{2}\sqrt{1+1} + \frac{1}{2}\sqrt{1-u} \quad \frac{f(u)}{2} - \frac{\sqrt{1+1} + \sqrt{1-u} - f(u)}{2} \rightarrow \frac{f(u) - \sqrt{1+1} + \sqrt{1-u}}{2}$$

... بالسیاق