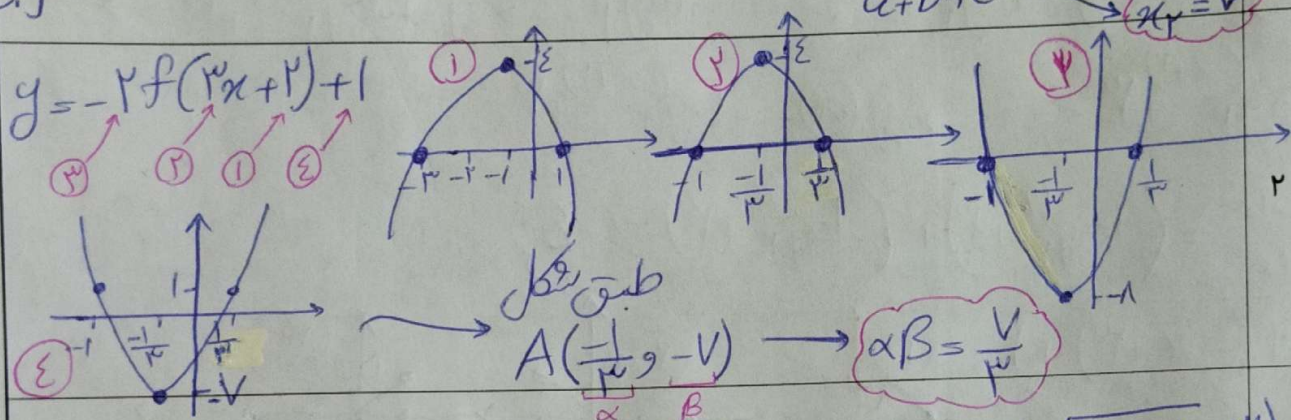


$$x = \frac{-b}{2a} = \frac{\frac{2}{5}}{\frac{2}{5}} = \frac{3}{5} \rightarrow \text{جایگزینی در معادله} \rightarrow y = \frac{21}{25} \rightarrow S\left(\frac{3}{5}, \frac{21}{25}\right)$$

$$\frac{3}{5} + x = 2 \rightarrow x = \frac{17}{5} \quad x' + \frac{21}{25} = 3 \rightarrow x' = \frac{54}{25}$$

$$\text{[بازنویسی معادله]} \rightarrow y = \frac{1}{3} \left(x - \frac{17}{5}\right)^2 + \frac{2}{5} \left(x - \frac{17}{5}\right) + 1 + \frac{54}{25} \rightarrow y = \frac{1}{3}x^2 + \frac{1}{3}x - \frac{4}{3}$$

$$a+b+c=0 \rightarrow \begin{cases} x_1=1 \\ x_2=V \end{cases}$$



$$y = -\sqrt{2x+2} + 3 \rightarrow y = -\sqrt{2(x+1)} + 3 \rightarrow y = -(-\sqrt{2(x+1)} + 3)$$

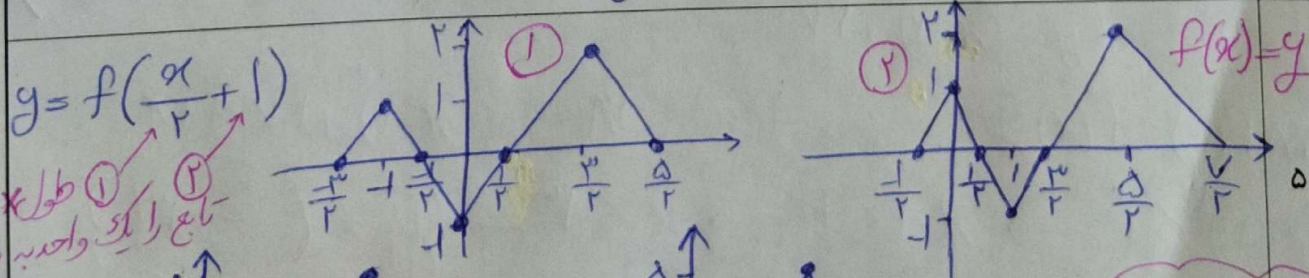
$$y = -(-\sqrt{2(x+1)} + 3) + 5 \rightarrow y = \sqrt{2x+2} + 2$$

$$\sqrt{2x+2} + 2 = \frac{V}{2} \rightarrow \frac{3}{2} = \sqrt{2x+2} \rightarrow \frac{9}{4} - \frac{1}{4} = 2x \rightarrow x = \frac{1}{2}$$

$$f(x-1) \rightarrow a < x-1 \leq 5 \rightarrow a+1 < x \leq 6$$

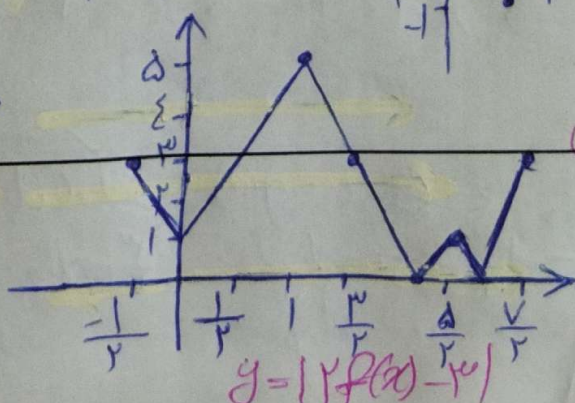
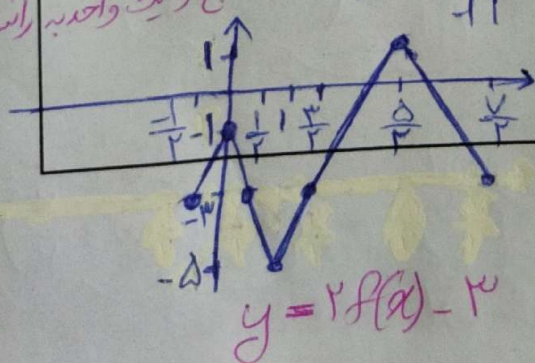
$$g(x+1) \rightarrow -1 \leq x+1 < b \rightarrow -2 \leq x < b-1$$

$$\begin{aligned} a+1 &= -2 & b-1 &= 5 \\ a &= -3 & b &= 6 \\ a-b &= -9 \end{aligned}$$



$$y = f\left(\frac{x}{2} + 1\right)$$

$$\frac{1}{2}x + 1 = 1 \rightarrow x = 0$$



$$R_f = [0, 5]$$

$$D_f = |2f(x) - 3| \geq 0$$

$$D_f = \left[0, \frac{V}{2}\right]$$