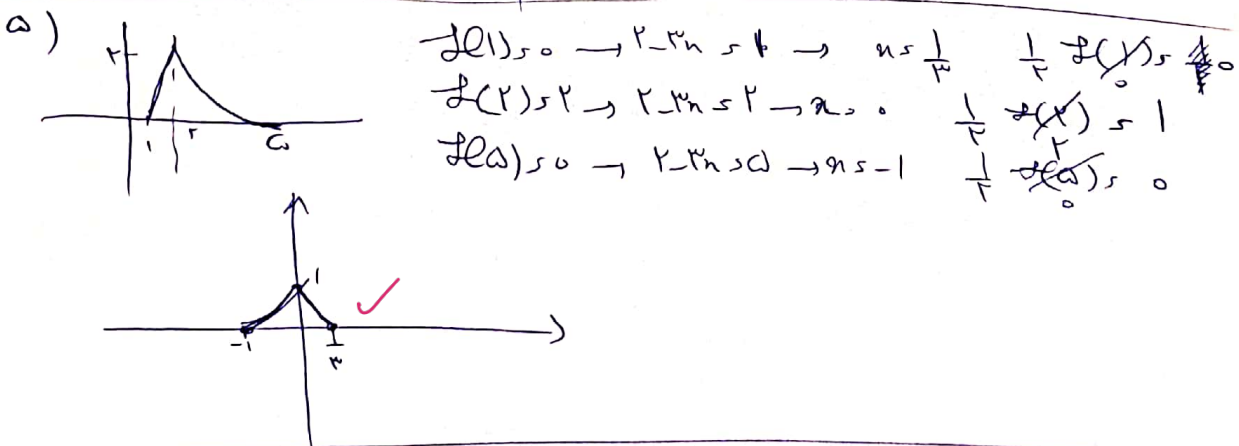
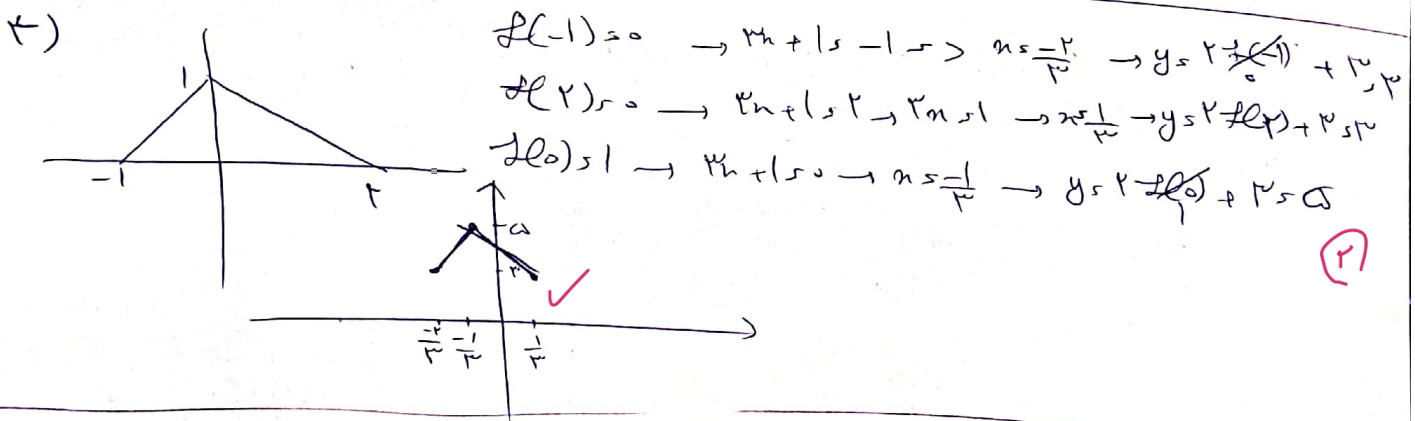


1) $D_{f(n)} [-2, 4] \rightarrow x \leq \frac{x+2}{2} \leq 4 \rightarrow -1 \leq x+2 \leq 8 \rightarrow -3 \leq x \leq 6$ (2)
 $-3 \leq x \leq 6 \rightarrow D_{f(n)} [-3, 6]$

2) $f(x-2) \rightarrow D_{f(n)} [-2, 3]$ (2)
 $(-2+2, -4+2, -1) \rightarrow D_{f(n)} [-1, 1]$
 $(2+2, 4+2, 1) \rightarrow D_{f(n)} [1, 3]$

3) $f(\frac{x+1}{2}) \rightarrow D_{f(n)} [-1, 3]$ (2)
 $\frac{x(-1)+1}{2} \leq \frac{x}{2} \leq 1 \rightarrow D_{f(n)} [-1, 3]$
 $\frac{x(3)+1}{2} \leq \frac{x}{2} \leq 3 \rightarrow -3 \leq x \leq 3 \rightarrow D_{f(n)} [-3, 3]$



6) $y = \frac{1}{2}x^2 + \frac{1}{2}x + 1 \rightarrow \frac{1}{2}x^2 + \frac{1}{2}x + 1 = \frac{1}{2}x^2 + \frac{1}{2}x + 1$ (2)
 $\frac{1}{2}x^2 + \frac{1}{2}x + 1 = \frac{1}{2}x^2 + \frac{1}{2}x + 1 \rightarrow y = \frac{1}{2}(x-1)^2 + 1$
 $x-1 \leq 3 \rightarrow x \leq 4$
 $x-1 \geq -5 \rightarrow x \geq -4$

$$\alpha \times \beta_s \left(\frac{-1}{r} \right) (-1)^r \frac{\checkmark}{\frac{r}{r}}$$

$$\begin{array}{l} a + 1s - r \rightarrow a = r \\ b - 1s \rightarrow b = y \end{array} \quad a - b - r - y - y$$

$$y_1 = f(x+1) \rightarrow [-r, a] \xrightarrow{\frac{r}{x+1}, \frac{1}{x}} \rightarrow p_1^r \left(\frac{1}{x}, \frac{y}{x} \right) = p_2$$

$\alpha + \left| \frac{\alpha - 1}{\gamma_n - \gamma} \right| + 1 < 0$

1	$\frac{\gamma}{\gamma}$
$\alpha + \frac{1-\alpha}{\gamma-\alpha} + 1 < 0$ $\frac{\gamma_n - \gamma_n \gamma + 1 - \alpha + \gamma - \alpha}{\gamma - \alpha} < 0$ $\frac{-\gamma_n \gamma + \gamma}{\gamma - \alpha} < 0$	$\alpha + \frac{\alpha-1}{\gamma-\alpha} + 1 < 0$ $\frac{\gamma_n - \gamma_n \gamma + \alpha - 1 + \gamma - \alpha}{\gamma - \alpha} < 0$ $\frac{-\gamma_n \gamma + \alpha + \gamma}{\gamma - \alpha} < 0$
$\alpha + \frac{\alpha-1}{\gamma_n - \gamma} + 1 < 0$ $\frac{\gamma_n \gamma - \gamma_n + \alpha - 1 + \gamma_n - \gamma}{\gamma_n - \gamma} < 0$ $\frac{\gamma_n \gamma - \gamma}{\gamma_n - \gamma} < 0 \rightarrow -\frac{\sqrt{\gamma} \sqrt{\gamma}}{\gamma + \gamma - \gamma}$	$\alpha + \frac{\alpha-1}{\gamma_n - \gamma} + 1 < 0$ $\frac{\gamma_n \gamma - \gamma_n + \alpha - 1 + \gamma_n - \gamma}{\gamma_n - \gamma} < 0$ $\frac{\gamma_n \gamma - \gamma}{\gamma_n - \gamma} < 0 \rightarrow -\frac{\sqrt{\gamma} \sqrt{\gamma}}{\gamma + \gamma - \gamma}$

$\alpha \in (-\infty, -\sqrt{\gamma}) \cup (1, \gamma)$

$$D_{y_1} = [-r, \Delta] \rightarrow -r \leq u \leq \Delta \rightarrow -\frac{1}{r} \leq \frac{u}{r} + 1 \leq \frac{\Delta}{r} \Rightarrow D_f = \left[-\frac{1}{r}, \frac{\Delta}{r}\right]$$

-9

$$R_{y_1} = [-1, r] \rightarrow -1 \leq t \leq r \rightarrow -\Delta \leq rt - r \leq 1 \rightarrow 0 \leq |rt - r| \leq \Delta$$

$$0 \leq \sqrt{|rt - r|} \leq \sqrt{\Delta} \Rightarrow R_f = [0, \sqrt{\Delta}]$$