

دواء عم دفترا

دست بافت

①

$$-1 \leq \frac{c_{n+1}}{\omega} \leq 1 \rightarrow -1 \leq c_{n+1} \leq \omega \rightarrow -1 \leq c_n \leq 1$$

$$\rightarrow -1 \leq n \leq 1 \quad D_{f(\frac{c_{n+1}}{\omega})} = [-1, 1]$$

②

$$-1 \leq n \leq 1 \rightarrow -1 \leq c_n \leq 1 \rightarrow -1 \leq c_{n-1} \leq 1$$

$$D_{f(n)} = [-1, 1]$$

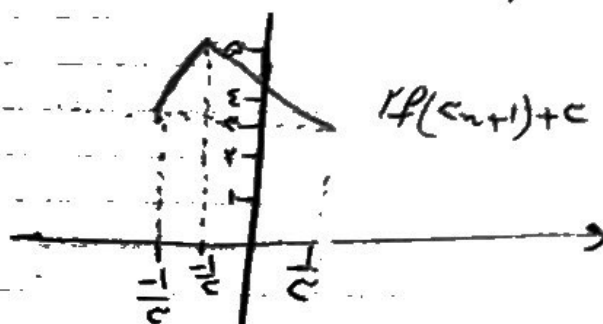
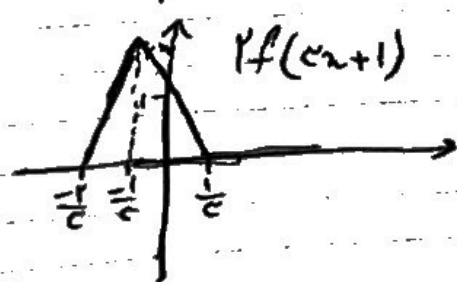
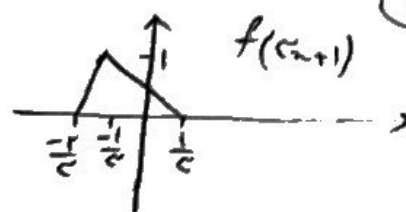
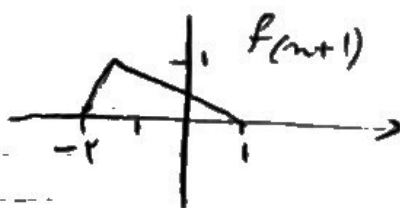
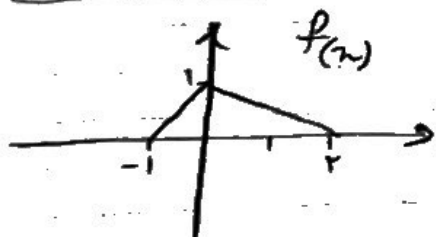
③

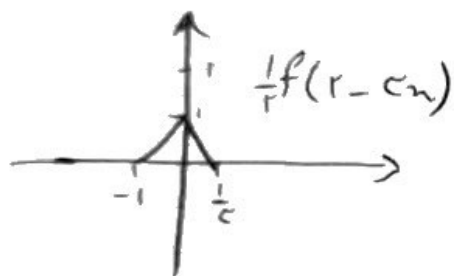
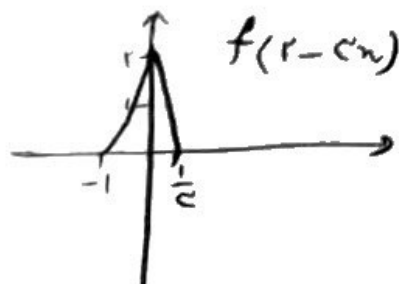
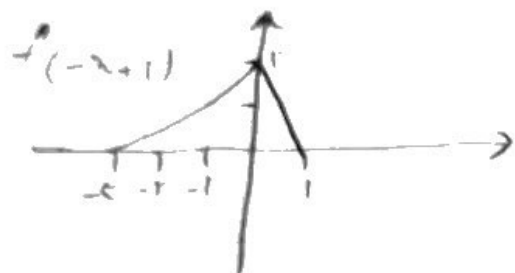
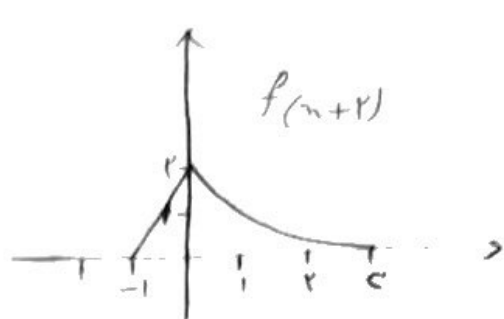
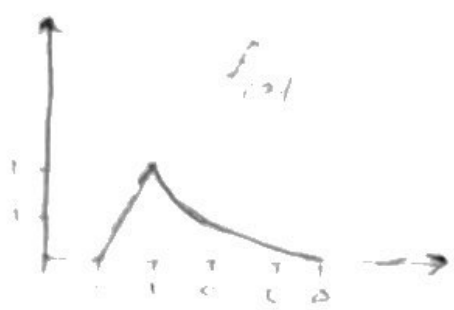
$$-1 \leq n \leq 1 \rightarrow -1 \leq c_n \leq 1 \rightarrow -1 \leq c_{n+1} \leq 1 \rightarrow -1 \leq \frac{c_{n+1}}{r} \leq 1$$

$$-1 \leq 1 - an \leq 1 \rightarrow -1 \leq -an \leq 1 \rightarrow \frac{r}{\omega} \geq n \geq \frac{-r}{\omega}$$

$$D_{f(1-an)} = \left(\frac{-r}{\omega}, \frac{r}{\omega}\right]$$

④





$$\textcircled{y} \quad y = -\frac{1}{c} n^r + \frac{r}{a} n + 1 \rightarrow \text{ext} \quad \left| \begin{array}{l} -\frac{b}{ra} = \frac{-\frac{1}{c} r}{\frac{r}{a}} = -\frac{r}{a} \\ -\frac{1}{c} \times \frac{a}{ra} + \frac{r}{a} \times \frac{r}{a} + 1 = \frac{ra}{ra} \end{array} \right.$$

$$\begin{aligned} y' &= -\frac{1}{c} (n - \varepsilon)^r + r \quad y' = 0 \rightarrow 0 = -\frac{1}{c} (n - \varepsilon)^r + r \Rightarrow \frac{1}{c} (n - \varepsilon)^r = r \\ \rightarrow (n - \varepsilon)^r &= r \rightarrow n - \varepsilon = r \rightarrow \boxed{n = r} \\ n - \varepsilon &= -c \rightarrow \boxed{n = 1} \end{aligned}$$

$$\begin{aligned} \text{ext}(f) &= (1, \varepsilon) \left\{ y = 1 - r f(cn+r) \rightarrow cn+r=1 \rightarrow n = -\frac{1}{c} = \alpha \right. \\ &\quad \left. \left[n = -\frac{1}{c}, y = 1 - r f(1) = 1 - r \times \varepsilon = -V = \beta \right. \right. \\ \alpha/\beta &= -\frac{1}{c} \times -V = \boxed{\frac{V}{c}} \end{aligned}$$

M	1	8	15	22	29
T	2	9	16	23	30
W	3	10	17	24	
T	4	11	18	25	
F	5	12	19	26	
S	6	13	20	27	
S	7	14	21	28	

(1)

$$f. \quad a < n-1 < \varepsilon \rightarrow a+1 < n < a \quad (1)$$

$$g. \quad -1 < n+1 < b \rightarrow -1 < n < b-1 \quad (2)$$

$$(1) \cap (2) = (-1, a)$$

$$a+1 = -1 \rightarrow a = -2$$

$$b-1 = a \rightarrow b = -1$$

$$a-b = -2 - (-1) = -1 \quad (9)$$

$$y_r = \sqrt{|rf(n)-c|}$$

$$D_{y_r} = D_{y_r}$$

$$y_1 = f\left(\frac{n}{r}+1\right)$$

(9)

$$-c < n < a \rightarrow -\frac{c}{r} < \frac{n}{r} < \frac{a}{r} \rightarrow -\frac{1}{r} < \frac{n}{r}+1 < \frac{a}{r}$$

$$D_{y_r} = \left[-\frac{1}{r}, \frac{a}{r}\right]$$

$$R_{y_1} = [-1, 1] \quad -1 < f(n) < 1 \rightarrow -1 < rf(n) < 1 \rightarrow -a < rf(n)-c < 1$$

$$0 < |rf(n)-c| < a \rightarrow 0 < \sqrt{|rf(n)-c|} < \sqrt{a}$$

$$R_{y_r} = [0, \sqrt{a}]$$

$$g(n) = \left| \frac{(n-1)+1}{r(n-1)+1} \right| + 1 = \left| \frac{n-1}{rn-c} \right| + 1$$

(10)

$$n + \left| \frac{n-1}{rn-c} \right| + 1 < 0 \rightarrow 1 < n < \frac{c}{r} \rightarrow n + \frac{n}{-rn+c} + 1 < 0$$

$$n > \frac{c}{r} \quad n + \frac{n-1}{rn-c} + 1 < 0 \rightarrow \frac{r^2n^2 - \varepsilon}{r^2n - c} < 0$$

$$n < 1 \quad n + \frac{n-1}{rn-c} + 1 < 0 \rightarrow \frac{r^2n^2 - \varepsilon}{r^2n - c} < 0$$

$$(-\infty, -\sqrt{2})$$

15	22	29
16	23	30
17	24	
18	25	
19	26	
20	27	
21	28	