

نام و نام خانوادگی: امیر محمد مصفاei پاسخنامه تشریحی تکلیف شماره ۷... کلاس: دبیرستان

$$D_{f_2}[-1, 2] \rightarrow -1 \leq \frac{x_{n+1}}{2} \leq 2 \rightarrow -2 \leq x_{n+1} \leq 4 \rightarrow -1 \leq x_n \leq 2 \rightarrow$$

$$-1 \leq x_n \leq 2 \rightarrow D_{f_2}[-1, 2] \quad \checkmark$$

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$$D = [-2, 2] \rightarrow -2 \leq x \leq 2 \rightarrow -9 \leq x \leq 9 \rightarrow -1 \leq x - 2 \leq 1 \rightarrow$$

$$f_n \rightarrow D = [-1, 1] \quad \checkmark$$

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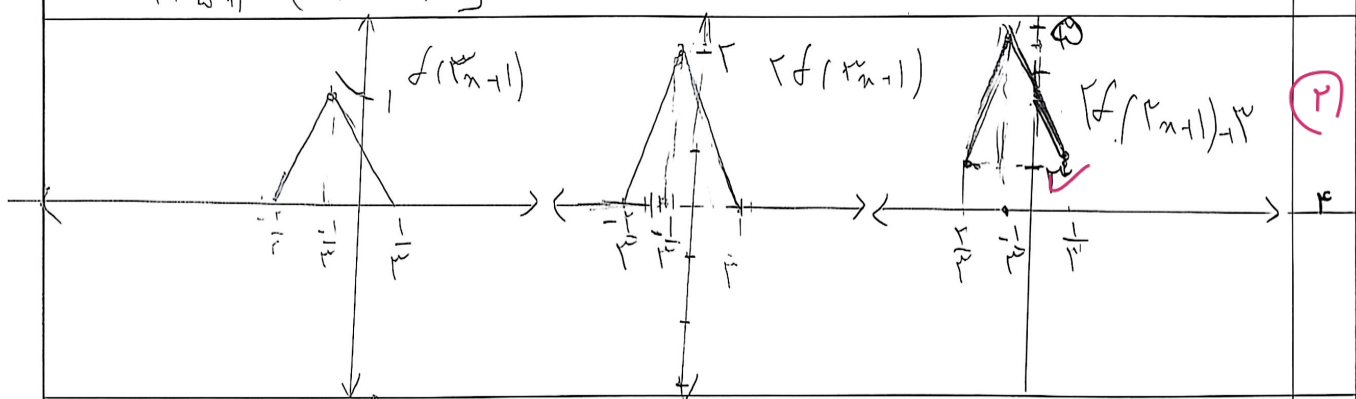
$$-1 \leq x \leq 2 \rightarrow -1 \leq x_{n+1} \leq 10 \rightarrow -1 \leq \frac{x_{n+1}}{2} \leq 5 \Rightarrow$$

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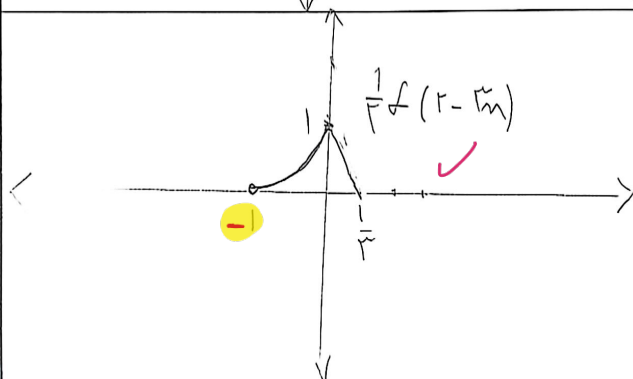
$$D_{f(x-2n)} \rightarrow -1 \leq x-2n \leq 2 \rightarrow -2 \leq -2n \leq 2 \rightarrow \frac{x}{2} \leq 2 \rightarrow x \leq 4$$

$$D_{f(x-2n)} = [-4, 4] \quad \checkmark$$



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$m_2 = \frac{b}{r_2 a} \rightarrow \frac{-\frac{x}{a}}{-\frac{x}{r_2}} = \frac{r_2}{a}$ $y_2 = \frac{r_1}{r_2} \quad (1)$	بافتن اینه انتهای فقط با جابجایی است. $\textcircled{2} \rightarrow A_2(r_1, r_2) \Rightarrow y_2 = -\frac{1}{r_2}(n-r_1)r_2$ $-\frac{1}{r_2}(n-r_1)r_2 = 0 \rightarrow (n-r_1)r_2 = 0$ $n-r_2 \neq r_2$ $\underline{n = 1} \quad \checkmark$	(2) 6
$A(\alpha, \beta) \text{ به } A'(1, r) \rightarrow r_\alpha + r_\beta = 1 \rightarrow \alpha = \frac{1}{r}$ $\beta = 1 - r_\alpha = 1 - \frac{1}{r} = -\frac{r-1}{r} \rightarrow \alpha\beta = \frac{1}{r} \checkmark$		(2) 7
$D_f \subset (a, r] \rightarrow D_{f(n)} = (a+1, d]$ $D_g \subset [-1, b) \rightarrow D_{g(n)} = [-r, b-1]$ $a+1 = -r \rightarrow a = -r-1 \checkmark$ $b-1 = d \rightarrow b = d+1 \checkmark$ $\underline{a-b = -4} \quad \checkmark$	$D_{f \cap g} \subset (r, d) \subset (a+1, d] \cap [-r, b-1]$	(2) 8
$D_{f(\frac{n}{r}+1)} \subset [-r, d] \rightarrow -r \leq n \leq d \rightarrow -\frac{r}{r} \leq \frac{n}{r} \leq \frac{d}{r} \rightarrow -1 \leq \frac{n}{r} + 1 \leq \frac{d}{r}$ $D_{f(n)} = [-\frac{1}{r}, \frac{d}{r}] \quad R_f \subset [-1, r] \rightarrow -1 \leq f(n) \leq r \rightarrow -\frac{1}{r} \leq f(n) \leq r$		(2) 9
$-\frac{1}{r} \leq f(n) - r \leq 1 \rightarrow 0 \leq f(n) - r \leq d \rightarrow 0 \leq f(n) - r \leq d \rightarrow R_r \subset [0, d] \checkmark$		
$f(n) = \left \frac{n+1}{r(n+1)} \right \xrightarrow{\text{حذف } r} \left \frac{n+1}{r(n+1)} \right \xrightarrow{\text{حذف } r} \left \frac{n+1}{r(n+1)} \right + 1 = g(n)$ $n + \left \frac{n-1}{r(n-1)} \right + 1 \leq 0 \xrightarrow{\text{حذف } r} n+1 + \frac{n-1}{r(n-1)} \leq 0 \xrightarrow{\text{حذف } r} (n+1)(r(n-1)) + n-1 > 0 \rightarrow r(n^2) > r^2$ $n^2 > r^2 \rightarrow n > \sqrt{r^2} = r \rightarrow n \in (-\infty, -r) \checkmark$		(2) 10