

$$n_8 = 1 \rightarrow -2 \rightarrow x \frac{1}{p} \rightarrow \left(\frac{1}{p} \right) \checkmark$$

$$y_8 = f \rightarrow x - 2 \rightarrow +1 \rightarrow -\checkmark$$

$$\rightarrow \alpha \beta = \left(\frac{y}{p} \right) \checkmark$$

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$$Dg(n+1) \Rightarrow -1 \leq n+1 < b \rightarrow -2 \leq n < b-1$$

$$Df(n-1) \Rightarrow a < n-1 \leq 2 \rightarrow a+1 \leq n \leq 3$$

$$(a+1, b-1) = (-2, 3)$$

$$a+1 - b+1 = a-b+2 = -2 \Rightarrow |a-b| = 2 \checkmark$$

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$$y = a(n-h)^2 + k \xrightarrow{\text{نقطة اوج}} y = a(n-h)^2 + k = -\frac{1}{3}n^2 + \frac{2}{3}n + 1 \rightarrow a = -\frac{1}{3}$$

$$y = -\frac{1}{3}(n-4)^2 + 3 \xrightarrow{y=0} -\frac{1}{3}(n-4)^2 = -3 \rightarrow \begin{cases} n=7 \\ n=1 \end{cases}$$

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$$Df(n) = [-5, 11]$$

$$[-3, 5]$$

دائره

$$Rf(n) = Rf\left(\frac{n}{2}+1\right)$$

$$R = \sqrt{|2Rf(n) - 3|} = [1, \sqrt{5}]$$

صغرى آخر

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$$f(n) = \left| \frac{n-2+1}{2(n-2)+1} \right| + 1 = \left| \frac{n-1}{2n-3} \right| + 1 < n$$

$$\left\{ \begin{array}{l} \frac{n-1}{2n-3} < -n \rightarrow \frac{2n^2 - 3n + n - 1}{2n-3} < 0 \rightarrow \frac{2n^2 - 2n - 1}{2n-3} < 0 \end{array} \right.$$

صغرى آخر

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۱۵، ۲۵

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$$-2 \leq \frac{3x+2}{5} \leq 4$$

$$D_{f(\frac{3x+2}{5})} = [-4, 4]$$

$$-10 \leq 3x+2 \leq 20$$

$$-12 \leq 3x \leq 18 \longrightarrow -4 \leq x \leq 6$$

$$\left. \begin{array}{l} 3(-2) - 2 = -8 \\ 3(6) - 2 = 16 \end{array} \right\} \longrightarrow D_f = [-8, 16]$$

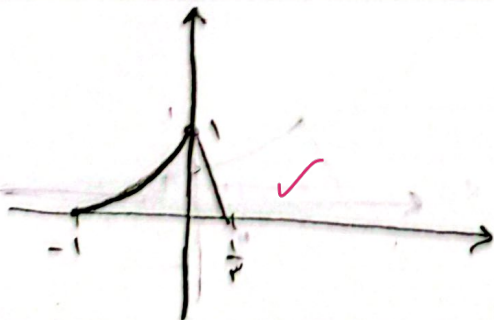
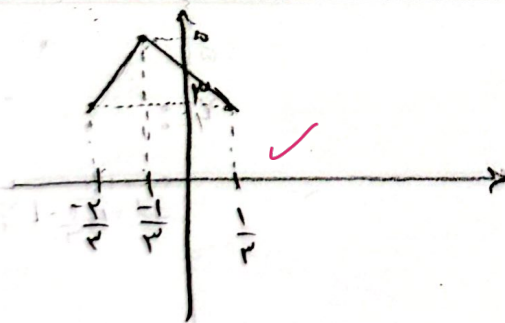
$$D_{f(x)} \Rightarrow [-1, 5]$$

$$D_{f(x-5x)} = \left(-\frac{2}{5}, \frac{2}{5}\right]$$

$$-\frac{2}{5} < x \leq \frac{2}{5}$$

$$-1 \leq 2-5x < 5$$

$$-3 \leq -5x < 3 \quad \uparrow \quad -3 < 5x \leq 3$$



$$D = [-1, \frac{1}{4}]$$

$$1 \frac{1}{4} \} \longrightarrow 1 \frac{1}{4}$$