

تکلیف شما را

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$$-2 \leq \frac{3n+2}{8} \leq 4 \Rightarrow -10 \leq 3n+2 \leq 30$$

$$\Rightarrow -12 \leq 3n \leq 28 \Rightarrow -4 \leq n \leq 9 \Rightarrow D_f = [-4, 9]$$

$$n = -2 \Rightarrow f(3n-2) = -1$$

$$n = 3 \Rightarrow f(3n-2) = 7 \Rightarrow D_f = [-1, 7]$$

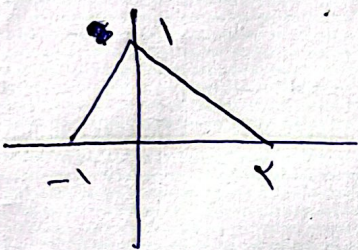
$$n = -1 \Rightarrow \frac{3n+1}{2} = -1 \Rightarrow D_f = [-1, 5]$$

$$n = 3 \Rightarrow \frac{3n+1}{2} = 5$$

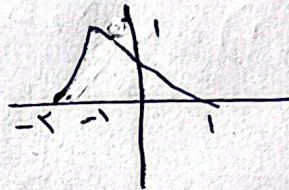
$$\Rightarrow -1 \leq 2 - 8n < 5 \Rightarrow -2 \leq -8n < 3$$

$$\Rightarrow -\frac{3}{8} < n \leq \frac{2}{8}$$

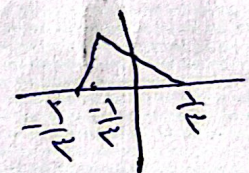
$$\Rightarrow D_f(8n) = \left(-\frac{3}{8}, \frac{2}{8}\right]$$



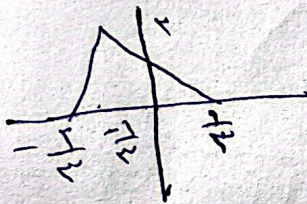
1 واحد عمودی



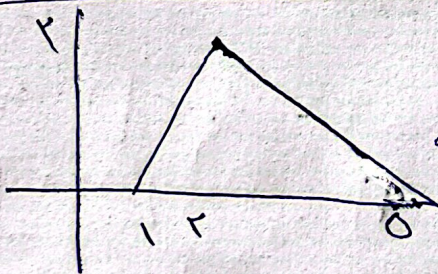
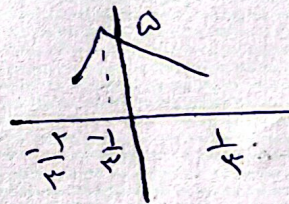
1/2 فشرده x



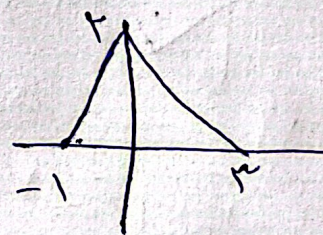
2 برابر



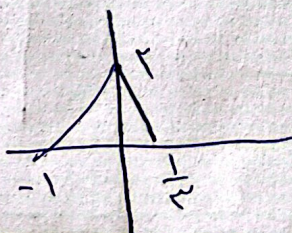
3 واحد عمودی



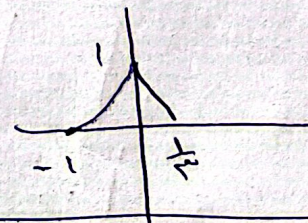
2 واحد عمودی



1/4 فشرده x



4 فشرده

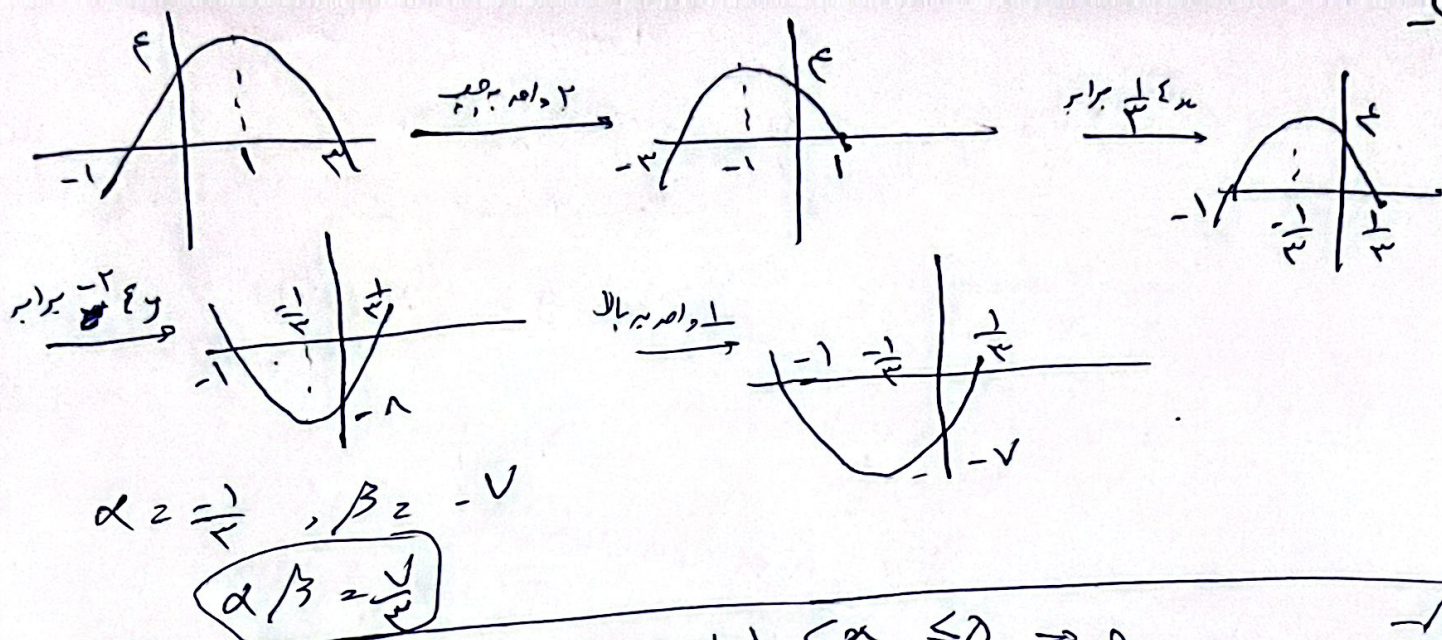


$$\frac{1}{4}(n-4)^2 + 3 = 0 \Rightarrow \frac{1}{4}(n-4)^2 = -3$$

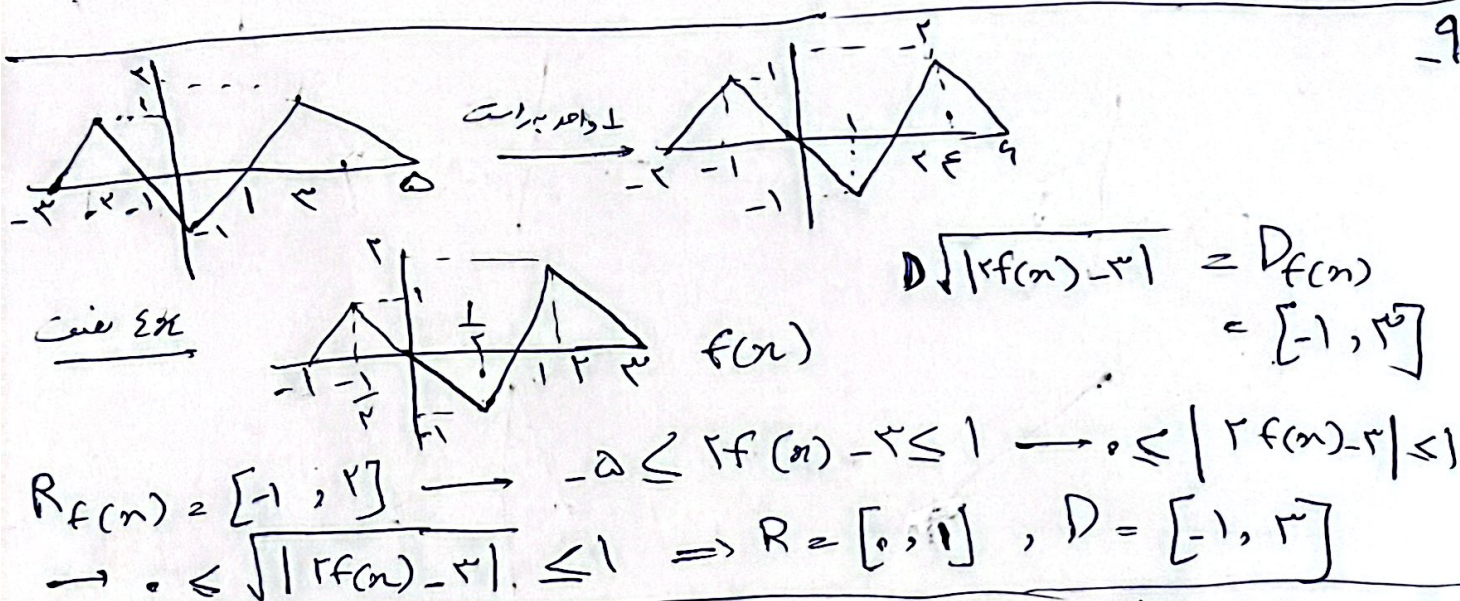
$$\Rightarrow (n-4)^2 = -12 \Rightarrow n-4 = \pm 2\sqrt{3}$$

$$\Rightarrow n < 1$$

فشرده x
نمی کند



$D_{f(n-1)}: a < n-1 \leq \epsilon \Rightarrow a+1 < n \leq \delta \Rightarrow D_{f(n-1)} = (a+1, \delta]$
 $Dg(n+1): -1 < n+1 < b \Rightarrow -2 \leq n < b-1 \Rightarrow Dg = [-2, b-1)$
 $\Rightarrow (a+1) \cap [-2, b-1) = (-2, \delta) \Rightarrow a+1 = -2 \Rightarrow a = -3$
 $b-1 = \delta \Rightarrow b = 4$
 $a-b = -3-4 = -7$



$\frac{n-1}{2n-3} + 1 \geq \left| \frac{n-1}{2n-3} \right| \xrightarrow{\text{horizontal stretch}} g(n) = \left| \frac{n-1}{2n-3} \right| + 1$
 $x+g(n) = x + \left| \frac{n-1}{2n-3} \right| + 1 < 0$
 $\frac{x-1+2n^2-3n+1}{2n-3} = \frac{2n^2-3n}{2n-3} < 0 \Rightarrow \frac{-\sqrt{3}\sqrt{3}}{-1+1+1} = (-\infty, -\sqrt{3}) \cup (\sqrt{3}, \infty)$
 $\frac{x-1-2n^2+3n-1}{2n-3} > 0 \Rightarrow \frac{-2n^2+3n-2}{2n-3} > 0 \Rightarrow (-\infty, \frac{-\sqrt{3}+1}{2}) \cup (\sqrt{3}, \frac{\sqrt{3}+1}{2})$