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امروز اسامی کلیه دانش آموزان

19, 18

$$1) \quad -2 \leq \frac{3x+1}{5} \leq 2 \Rightarrow -10 \leq 3x+1 \leq 10$$

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

راسته را در سه جا گزینیم

$$2) \quad \eta_{\min} = \varphi(-2) - 2 = -8 \quad / \quad \eta_{\max} = \varphi(2) - 2 = 4$$

$$D_f = [-8, 4]$$

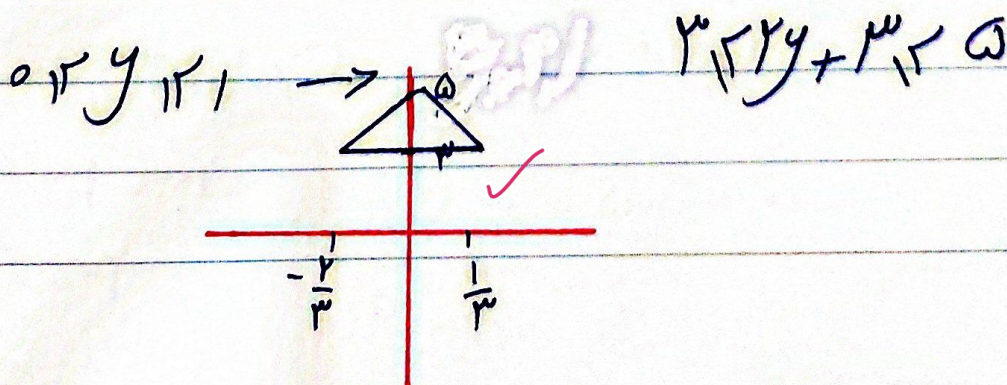
$$3) \quad D_f = \eta_{\min} = \frac{\varphi(-1) + 1}{2} = -1 \quad \rightarrow D_f = [-1, 0]$$

$$\eta_{\max} = \frac{\varphi(3) + 1}{2} = 0$$

$$\rightarrow -1 \leq 2 - 0x \leq 0 \rightarrow -\frac{3}{2} \leq x \leq \frac{3}{2}$$

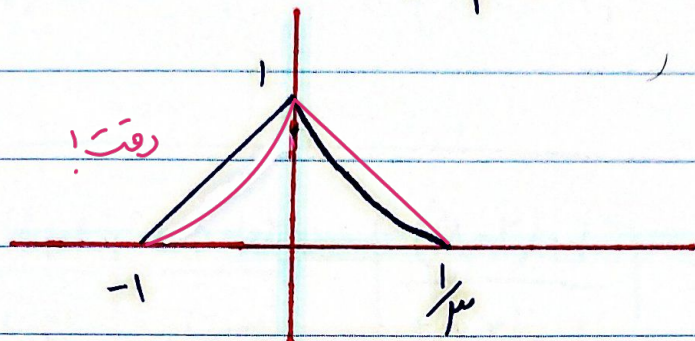
$$\left(-\frac{3}{2}, \frac{3}{2}\right]$$

$$4) \quad -1 \leq 3x+1 \leq 2 \Rightarrow -\frac{2}{3} \leq x \leq \frac{1}{3}$$



$$5) \quad 1 \leq x-1 \leq 5 \rightarrow -1 \leq x \leq \frac{1}{3}$$

$$0 \leq y \leq 2 \rightsquigarrow 0 \leq \frac{y}{2} \leq 1$$



$$4) \quad a(x-1)^2 + 3 \rightsquigarrow a = -\frac{1}{3} \quad -\frac{1}{3}(x-1)^2 + 3 = 0 \quad (2)$$

$$\hookrightarrow \frac{-x^2 + 2x - 1}{3} = 0 \rightsquigarrow x = 1, \sqrt{3}$$

$$a(x-a)^2 + b$$

از فرمول Ext (a,b) ، نمودار رسم استفاده کنید

$$✓) \quad x = 1 \rightsquigarrow_{\max} \quad 3x + 1 = 1 \rightsquigarrow x = -\frac{1}{3} \quad (2)$$

$$J_{\max} = 1 \rightsquigarrow 1 - 2y \rightsquigarrow 1 - \lambda = -\sqrt{3}$$

$$A: \left(-\frac{1}{3}, -\sqrt{3}\right) \rightsquigarrow \alpha \cdot \beta = \sqrt{3}$$

$$1) \quad a \leq x-1 \leq 5 \rightarrow a+1 \leq x \leq 5 \quad (-2, 5) \quad (2)$$

$$-1 \leq x+1 \leq 6 \rightarrow -2 \leq x \leq 5$$

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

$$a = -3$$

$$b-1 = 5 \rightarrow b = 6$$

$$a-b = -9$$

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$$Df = \left[-\frac{x}{r} + 1, \frac{y}{r} + 1 \right] = \left[-\frac{1}{r}, \frac{\sqrt{5}}{r} \right] \quad (r)$$

$$-1.5 \leq f(n) \leq 1.5 \leadsto 0.5 \leq |f(n) - 1| \leq 1.5 \leadsto R_f = [0, \sqrt{5}] \quad (r)$$

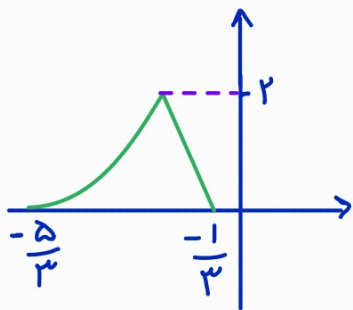
$$(و) \quad \left| \frac{n+1}{n+1} \right| \xrightarrow[\text{رأس}]{\text{مقام}} \left| \frac{(n-1)+1}{1(n-1)+1} \right| \xrightarrow[\text{لا}]{\text{مقام}} \left| \frac{n-1}{n-1} \right| + 1 \quad (r)$$

$$\hookrightarrow f(n) + n = \left| \frac{n-1}{n-1} \right| + \underline{n+1} < 0 \rightarrow n+1 < \frac{n-1}{n-1} < n-1$$

$$\rightarrow \frac{n-1}{n-1} < n-1 \leadsto n \in (-\infty, -\sqrt{2}) \cup (\sqrt{2}, \frac{x}{r})$$

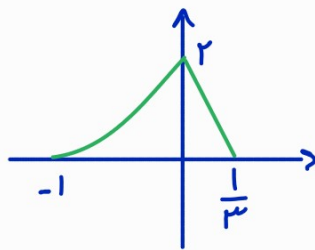
$$\rightarrow n+1 < \frac{n-1}{n-1} \leadsto n \in (-\infty, \frac{1-\sqrt{5}}{2}) \cup (\frac{x}{r}, \frac{1+\sqrt{5}}{2})$$

$$\text{اشتراب} = (-\infty, -\sqrt{2})$$



$$y = f(x)$$

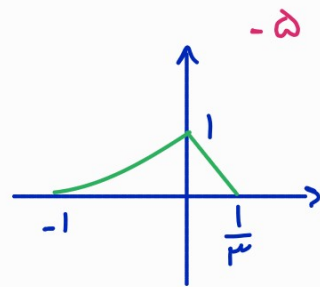
تغییر واحد به راست



$$y = f(x - \frac{1}{2})$$

$$y = f(x - \frac{1}{2})$$

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$$y = \frac{1}{2} f(x - \frac{1}{2})$$

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