

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

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

$$-12 \leq 3x \leq 18$$

$$-4 \leq x \leq 6$$

$$D_f = [-4, 6]$$

$$-2 \rightarrow 3x-2 = 3x-2-2 = -4$$

$$3 \rightarrow 3x-2 = 3x-2-2 = 7$$

$$D_f = [-4, 7]$$

$$-1 \rightarrow \frac{3x+1}{2} \rightarrow \frac{3x-1+1}{2} = -1$$

$$3 \rightarrow \frac{3x+1}{2} \rightarrow \frac{3x-3+1}{2} = 3$$

$$[-1, 3]$$

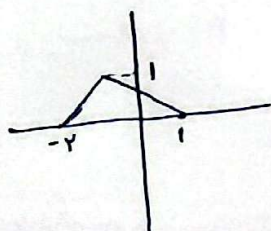
$$-1 \leq 2-5x \leq 5$$

$$-3 \leq -5x \leq 3$$

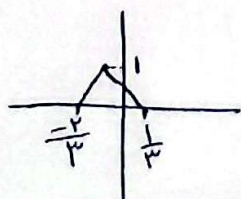
$$-\frac{3}{5} \leq x \leq \frac{3}{5}$$

$$D_f = \left[-\frac{3}{5}, \frac{3}{5}\right]$$

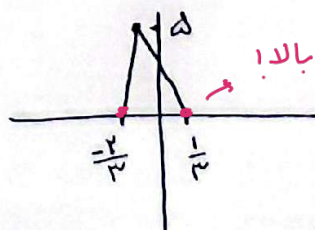
$$f(x+1)$$



$$f(3x+1)$$



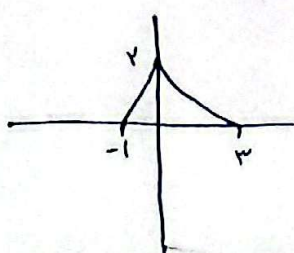
$$2f(3x+1)+3$$



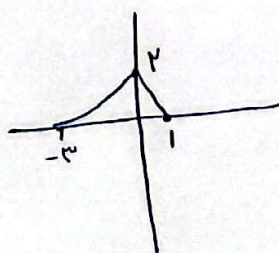
۳ واحد ببر بالا

صفحه ۳

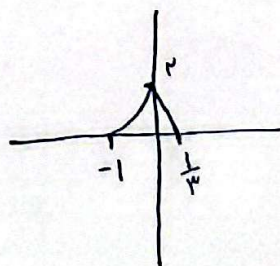
$$f(x+2)$$



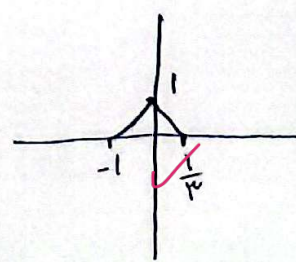
$$f(-x+2)$$



$$f(2-3x)$$



$$\frac{1}{2}f(2-3x)$$



$$y = \frac{-1}{\sqrt{x}}(x-4)^{\frac{1}{2}} + \sqrt{x}$$

$$0 = \frac{-1}{\sqrt{x}}(x-4)^{\frac{1}{2}} + \sqrt{x}$$

$$(x-4)^{\frac{1}{2}} = 4$$

$$(x-4) = \pm 16$$

$$x = \sqrt{}$$

$$x = 1$$

$$B = 1 - \sqrt{x} f(\sqrt{x} + \sqrt{x})$$

$$f(1) = \sqrt{x}$$

$$B-1 = -\sqrt{x} f(\sqrt{x} + \sqrt{x})$$

$$\frac{1-B}{\sqrt{x}} = f(\sqrt{x} + \sqrt{x})$$

$$1 = \sqrt{x} + \sqrt{x}$$

$$-1 = \sqrt{x}$$

$$d = \frac{1}{\sqrt{x}}$$

$$\frac{1-B}{\sqrt{x}} = \sqrt{x}$$

$$1-B = \Lambda$$

$$B = -\sqrt{x}$$

$$dB = \frac{-1}{\sqrt{x}} dx - \sqrt{x} = \frac{-\sqrt{x}}{\sqrt{x}}$$

$$g(x+1) \rightarrow -1 \leq x+1 < b \quad -2 \leq x < b-1 \quad [-2, b-1)$$

$$f(x-1) \rightarrow a < x-1 \leq 4 \quad a+1 < x \leq 5 \quad (a+1, 5]$$

$$a+1 = -2$$

$$a = -4$$

$$b-1 = 5$$

$$b = 6$$

$$a-b = -4-6 = -10$$

$$f(x) \rightarrow \frac{\sqrt{x}}{\sqrt{x}} + 1 = \frac{1}{\sqrt{x}} \quad \frac{1}{\sqrt{x}} + 1 = \frac{\sqrt{x}}{\sqrt{x}} \quad \left. \begin{array}{l} \text{مطلق دارد} \\ \text{مطلق است} \end{array} \right\} \rightarrow D_f = \left[\frac{1}{\sqrt{x}}, \frac{\sqrt{x}}{\sqrt{x}} \right]$$

$$R_f = [0, \sqrt{5}]$$

$$\begin{array}{l} \rightarrow \sqrt{x-1} = \sqrt{x} = -5 \\ \rightarrow \sqrt{x} - \sqrt{x} = 1 \end{array} \left. \begin{array}{l} \text{صفر دارد و در} \\ \text{مطلق است} \end{array} \right\} \rightarrow [0, 5] \xrightarrow{\text{جدا}} [0, \sqrt{5}]$$

$$f(x-2) + 1 \rightarrow \left| \frac{x-2+1}{\sqrt{x-2}+1} \right| = \left| \frac{x-1}{\sqrt{x-2}} \right| + 1 \quad \left| \frac{x-1}{\sqrt{x-2}} \right| < -x-1$$

$$x < -1$$

$$\frac{x-1}{\sqrt{x-2}} < -x-1$$

$$x-1 > (-x-1)(\sqrt{x-2})$$

$$x-1 > -\sqrt{x-2} + x + 2$$

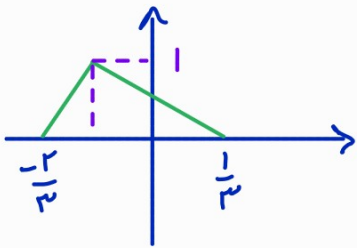
$$\sqrt{x-2} > 1$$

$$\left. \begin{array}{l} x^2 > 2 \\ x < -1 \end{array} \right\} \rightarrow \begin{array}{l} x > \sqrt{2} \\ x < -\sqrt{2} \end{array}$$

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

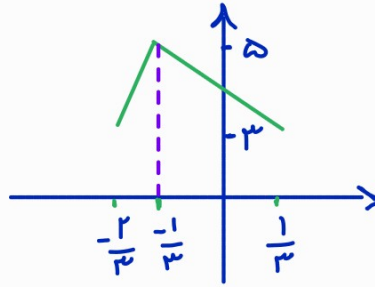
$$Dg = [-1, r) \rightarrow -1 \leq n < r \rightarrow -1 \leq \frac{r_{n+1}}{r} < \Delta \Rightarrow D_f = [-1, \Delta) \quad -r$$

$$-1 \leq r - \Delta n < \Delta \rightarrow -\frac{r}{\Delta} \leq n \leq \frac{r}{\Delta} \Rightarrow D_{f(r-\Delta n)} = \left(-\frac{r}{\Delta}, \frac{r}{\Delta}\right]$$



$$y = f(r_{n+1})$$

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$$y = rf(r_{n+1}) + r$$

-r