

تاج است

5

10

-2

15

$$y = 1, 1, 1, 2, 1, 1, \dots$$

مال نقص و باعیت

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3

درجه ۲ $n=2$ هر دو با هم برابرند $\rightarrow$

15

25



$$y = \frac{2}{\sqrt{ax^2 + bx + c}}$$

$$D_f = (-\infty, 2)$$

$$a = 0 \rightarrow a = 0$$

$$a = 0 \rightarrow b < 0 \rightarrow x = 2 \rightarrow 2b = c$$

$$2a + c - 3|b| \rightarrow 0 \rightarrow -2b + 3b = \boxed{b}$$

$$y = \sqrt{\frac{2x+2}{x+b}} + a$$

$$D_f = (2, \infty)$$

$$x+b \rightarrow b = -2$$

$$y = \sqrt{ax^2 - x} \geq 0$$

$$x(x-1)(x+1) \geq 0$$

$$\begin{array}{c} -1 \quad 0 \quad 1 \\ - \quad + \quad - \quad + \end{array}$$

$$D_f = [-1, 0] \cup [1, +\infty)$$

$$y = \frac{1}{\sqrt{|x|} - 1} > 0$$

$$|x| - 1 > 0 \rightarrow |x| > 1$$

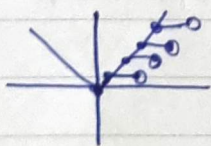
$$x > 1, x < -1$$

$$D_f = (-\infty, -1) \cup (1, +\infty)$$

$$y = \sqrt[3]{\frac{1}{|x|} - [x]}$$

$$|x| - [x] + 0 \rightarrow |x| \neq [x]$$

$$D_f = \{x | x \notin \mathbb{W}\} \cup D_f = \mathbb{R} - \mathbb{W}$$



$$\Rightarrow \sqrt{x} + \sqrt{y} = 9$$

$$\sqrt{y} = 9 - \sqrt{x}$$

$$y = 81 + x - 18\sqrt{x}$$

$$x \geq 0, 9 - \sqrt{x} \geq 0$$

$$\sqrt{x} \leq 9 \rightarrow x \leq 81$$

$$D_f = [0, 81]$$

$$y = \frac{1}{\sqrt{\left(x - \frac{1}{x}\right) + \left(x + \frac{1}{x}\right) + 2 - 2}}$$

$$\left(x - \frac{1}{x}\right) + \left(x + \frac{1}{x}\right) + 2 - 2 > 0$$

$$2\left(x + \frac{1}{x}\right) - 2 > 0 \rightarrow \left(x + \frac{1}{x}\right) > 1$$

$$x + \frac{1}{x} \geq 2 \rightarrow x \geq \frac{1}{x} \rightarrow D_f = \left(\frac{1}{2}, +\infty\right)$$

$$y = \sqrt{1 - \log(x-a)} \geq 0 \rightarrow x-a > 0 \rightarrow x > a \rightarrow a > \frac{9}{x} \rightarrow b$$

$$\log(x-a) \leq 1 \rightarrow x-a \leq 10 \rightarrow x \leq \frac{10+a}{x} \rightarrow c$$

$$c - b = \frac{10+a}{x} - \frac{9}{x} = \frac{1+a}{x}$$