

$$4) \quad x + b_{10} \rightarrow x + b_{10} \rightarrow b \cdot \boxed{-p} \quad \checkmark$$

$$V) \quad \sqrt{x(x+1)(x-1)} = \frac{1}{2} \sqrt{x^2 - 1} \rightarrow D \cdot [-1, 0] \cup [1, +\infty) \quad \checkmark$$

$$B) \quad y = \frac{1}{\sqrt{|x|-1}} \rightarrow |x|-1 > 0 \rightarrow |x| > 1 \rightarrow D: \mathbb{R} - [-1, 1] \quad \checkmark$$

$$A) \quad y = \sqrt{\frac{1}{|x| - [x]}} \rightarrow |x| - [x] \neq 0 \rightarrow D: \mathbb{R} - \mathbb{N} \quad \checkmark$$

$$B) \quad \sqrt{x} + \sqrt{y} = 9 \rightarrow D: [0, 81] \quad \checkmark$$

$$\sqrt{x} + \sqrt{y} = 9 - \begin{cases} x \geq 0 \\ \sqrt{y} = 9 - \sqrt{x} \end{cases} \xrightarrow{y \geq 0} 0 \leq x \leq 81 \quad \xrightarrow{n} [0, 81]$$

$$9) \quad \frac{1}{\sqrt{[x - \frac{1}{t}] + [x - \frac{1}{t} + t]}} \rightarrow [t] + [t] + t > 0 \rightarrow [t] > -t \rightarrow [t] > -1 \quad \checkmark$$

$$\rightarrow [t] > -1 \rightarrow t > 0 \rightarrow x - \frac{1}{t} > 0 \rightarrow x > \frac{1}{t} \rightarrow \boxed{[\frac{1}{t} + \infty) = D} \quad \checkmark$$

$$10) \quad x - a > 0 \rightarrow x > \frac{a}{t} \rightarrow \frac{a}{t} = b \quad \checkmark$$

$$1 - \log(x - a) > 0 \rightarrow \log(x - a) \leq 1 \rightarrow (x - a) \leq 10 \rightarrow x \leq \frac{10 + a}{t} \rightarrow \delta \cdot \frac{a}{t} = 0$$

$$C - b \cdot \delta + \frac{a}{t} - \frac{a}{t} = \boxed{\delta} \quad \checkmark$$

