

-1

c) $[y] + [z] = 1 \Rightarrow z = 0.1 \Rightarrow 1 \leq y < 2 \Rightarrow$ قابل نیست

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3.

5)

4

$$c) \sqrt{x^2 - x} \leadsto x^2 - x \geq 0 \leadsto x(x-1) \geq 0 \leadsto \frac{-1 \quad 0 \quad 1}{- \quad + \quad - \quad +} \leadsto D = [-1, 0] \cup [1, +\infty)$$

-V

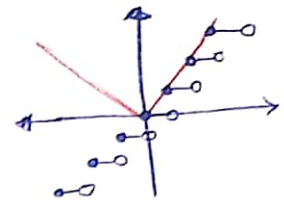
$$c) \frac{1}{|x|-1} \leadsto |x|-1 > 0 \leadsto |x| > 1 \leadsto x > 1 \vee x < -1 \leadsto D = \mathbb{R} - [-1, 1]$$

$$c) y = \sqrt{\frac{1}{|x| - [x]}} \leadsto |x| - [x] \neq 0 \leadsto |x| \neq [x]$$

$$D = \mathbb{R} - \{0, 1, 2, \dots\} = \mathbb{R} - \mathbb{W}$$

$$\sqrt{x} + \sqrt{y} = 9 \leadsto x \geq 0 \quad y \geq 0 \leadsto 9 - \sqrt{x} = y \leadsto 9 - \sqrt{x} \geq 0$$

$$\leadsto 9 \geq \sqrt{x} \leadsto 81 \geq x \leadsto D = [0, 81]$$



-A

$$y = \frac{1}{\sqrt{[x - \frac{1}{r}] + [x + \frac{r}{r}]}} \leadsto [x - \frac{1}{r}] + [x + \frac{r}{r}] + 1 \geq 0 \leadsto r[x + \frac{1}{r}] > -r$$

-9

$$\leadsto [x + \frac{1}{r}] > -1 \leadsto 0 \leq x + \frac{1}{r} \leadsto \frac{1}{r} \leq x$$

$$D = [\frac{1}{r}, +\infty)$$

-10

$$y = \sqrt{1 - \log(x-a)} \quad x-a > 0 \leadsto x > \frac{a}{r}$$

$$1 - \log(x-a) \geq 0 \leadsto 1 \geq \log(x-a) \leadsto 10 \geq x-a \leadsto \frac{10+a}{r} \geq x$$

$$D = (\frac{a}{r}, \frac{10+a}{r}] \leadsto c-b = \frac{10+a}{r} - \frac{a}{r} = \frac{10}{r} = \boxed{10}$$