

9,0

۹

$$a^2 + c a = m a + 1$$

$$a^2 + a - 1 = 0$$

$$a = 1 \text{ ق ق } \checkmark$$

$$a = -1 \text{ ق ق } \times$$

$$f(1) = 1 + c \times 1 = 1$$

که فرضی ندارد  
نویسند و هم معادله  
بنداریم

✓

۵

$$n = 1 \Rightarrow 1 \times 4 - b = a - 4$$

$$1 + 4 = a + b$$

$$1 + 4 = a + b$$

✓

۵

$$\sqrt{4 \times 1 - a} + \sqrt{b - 1 \times 1} = \sqrt{1 \times a + 1} + \sqrt{1 + b}$$

۵

$$\frac{x+1}{|x-1|} \geq \frac{-1}{-1} + \frac{1}{1} \rightarrow [-1, 1) \cup (1, +\infty) \cap \mathbb{R}$$

$$I \cap I \cap I = I$$

1,0

$$\frac{4-x}{x^2+1} \geq 0 \quad I = \emptyset$$

$$[x] - 1 \geq 0 \rightarrow [1, +\infty) \cap \mathbb{R}$$

$$1 - [x] \geq 0 \Rightarrow x = (-\infty, 1) \cap \mathbb{R}$$

$$\mathbb{R} \cap \mathbb{R} = \mathbb{R}$$



$$\frac{x^2 - x - 4}{x^2 - 13x^2 + 14} \geq 0 \Rightarrow \frac{x^2 - x - 4}{-12x^2 + 14} \geq 0$$

$$x^2 - x - 4 \geq 0 \Rightarrow x = \frac{1 \pm \sqrt{17}}{2}$$

$$R = \left\{ \left[ \frac{1-\sqrt{17}}{2}, \frac{1+\sqrt{17}}{2} \right], \left\{ -\frac{1}{12} \right\} \right\}$$

$$A^2 = 13A + 14 = 0$$

$$(A-1)(A+14) = 0$$

$$A=1 \Rightarrow x = \frac{1}{13}$$

$$A=-14 \Rightarrow x = -\frac{1}{13}$$

0

$$[-x] - 1 \geq 0 \rightarrow [-1, -\infty)$$

$$y = \frac{ax^2 + 4}{[x]^2 - 1[x] - 14} \rightarrow R = \{ [-1, 0), [1, 14) \}$$

$$[x] = A \Rightarrow A^2 - 1A - 14 = 0$$

$$A = -1 \rightarrow [x] = -1$$

$$A = 14 \rightarrow [x] = 14$$

1, 14

$$y = \frac{\cot x + 1}{\tan x + 1}$$

$$\tan x + 1 \neq 0 \Rightarrow \tan x \neq -1$$

$$\sin x \neq 0$$

$$R = \left\{ k\pi + \frac{\pi}{4}, k\pi + \frac{5\pi}{4}, k\pi \right\}$$

$$1 - \sqrt{2} \sin^2 x \geq 0$$

$$\frac{1}{\sqrt{2}} \geq \sin x \rightarrow \sin x \leq \frac{1}{\sqrt{2}}$$

1, 14

$$1 - \log_{\frac{1}{r}} \geq 0 \Rightarrow 1 \geq \log_{\frac{1}{r}} \Rightarrow \frac{1}{r} \geq x-1 \Rightarrow \frac{1}{r} + \frac{r}{r} \geq x$$

$$x-1 > 0 \Rightarrow x > 1 \Rightarrow D = \left( 1, \frac{r}{r} \right] \quad D = \left( \frac{r}{r}, +\infty \right)$$

1, 14

$$x^2 - x \geq 0 \Rightarrow x(x-1) \geq 0 \Rightarrow R = [0, 1]$$

$$1 - \log_{\frac{r}{r}} \geq 0 \Rightarrow x^2 - 14x \geq 0 \Rightarrow x(x-14) \geq 0 \Rightarrow R = [0, 14]$$

$$\mu^2 x - x^2 - 1 \geq 0 \Rightarrow D = [1, +\infty)$$

$$\frac{\mu x + d}{r x + f} \in W \Rightarrow -\frac{\mu x + d}{r x + f} \Rightarrow x = \frac{-\mu x + d}{r x + f} \Rightarrow \left\{ x \mid x = \frac{-\mu x + d}{r x + f} \right\}$$

1