

۱۲,۵

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$$f(x) = \sqrt{1-x^2} \quad f(x) = \{(0,1)(-1,0)(1,0)\}$$

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$$1-x^2 \geq 0 \quad 2g = \{(-1,2)(0,1)(1,4)\}$$

$$x^2 \leq 1 \quad 3f = \{(-1,0)(0,3)(1,0)\}$$

$$x+\omega+\epsilon = 11$$

$$x \leq \pm 1$$

$$2g-3f = \{(-1,2)(0,4)(1,4)\} \rightarrow R = \{2,4\}$$

$$D_f = [-1,1]$$

$$f(w) = w \rightarrow R = [w, +\infty)$$

$$g(w) = 4 \rightarrow R = (-\infty, 4]$$

$$R = (-\infty, 4] \cup [w, +\infty)$$

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$$\frac{-x^2}{x} + 2x + 3 \xrightarrow{x^2} -x^2 + 2x + 3$$

$$y = -x^2 + 2x + 3 \begin{cases} x_{\max} = \frac{-b}{2a} = +1 \\ y_{\max} = 4 \end{cases} \rightarrow (-\infty, 4] \xrightarrow{(a,b)} > \frac{3}{4} \left(\frac{3}{4}, 1\right)$$

$$\frac{-x^2 + 2x + 3}{x} > \frac{3}{4} \xrightarrow{x \cdot x} -x^2 + 2x + 3 > \frac{3}{4}x$$

$$-x^2 + 2x + 3 > \frac{3}{4}x$$

$$\rightarrow -x^2 + 2x + 3 > \frac{3}{4}x$$

$$\rightarrow \sqrt{b-a} = 1$$

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$$\sqrt{1-\frac{w}{x}} = \sqrt{\frac{13}{x}}$$

$$|2x-4| = 2|x-2| \quad y = |x-1| + |x-3| + 2|x-2|$$

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$$x < 1 \quad |x-1| = 1-x$$

$$|x-2| = 2-x$$

$$|x-3| = 3-x$$

$$\downarrow$$

$$1-4x \xrightarrow{x=1} \textcircled{E}$$

$$1 \leq x < 2$$

$$|x-1| = x-1$$

$$|x-3| = 3-x$$

$$|x-2| = 2-x$$

$$\downarrow \xrightarrow{x=1} \textcircled{E}$$

$$2 \leq x < 3$$

$$|x-1| = x-1$$

$$|x-3| = 3-x$$

$$|x-2| = x-2$$

$$\downarrow \xrightarrow{x=3} y=4$$

$$2x-2 \xrightarrow{x=2} \textcircled{G}$$

$$x \geq 3$$

$$|x-1| = x-1$$

$$|x-3| = x-3$$

$$|x-2| = x-2$$

$$\downarrow$$

$$x-1 \xrightarrow{x=3} \textcircled{E}$$

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$$\frac{-1}{x+2} \mid -2x-2 \mid -2x-2$$

$$R = (-\infty, 1]$$

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$$\frac{2x^2 + 5x + 4}{x+1} = 2x + 3 + \frac{3}{x+1} \rightarrow 0$$

$m = k \rightarrow R^S \text{ بر } \alpha + (a-j)\alpha + m-j \rightarrow \alpha = \frac{j - \Delta \pm \sqrt{(a-j)^2 - c(m-j)}}{2} \rightarrow y$
 $\left. \begin{array}{l} \alpha y \rightarrow 1 > 0 \\ \Delta < 0 \rightarrow m < k \rightarrow \end{array} \right\} \text{نمی‌تواند برابر } k \text{ باشد}$
 $m = 1, k, \mu$

$$f(u) = u + v \rightarrow u \geq w \rightarrow \left. \begin{matrix} R = \\ \end{matrix} \right\} a, +\infty)$$

$$f(x) = x^k - yx^{k-1} \rightarrow 0 \leq x < y \rightarrow (x-1)^k + 1 \rightarrow R = [1, y)$$

$$f(x) = |x| + 4 = -x + 4 \quad x < 0 \longrightarrow R = (4, +\infty)$$

$$[1, +\infty) \cup [1, 4) \cup (4, +\infty) = [1, +\infty)$$

$$x^y + (x+y) = (x+y)(x+1)$$

$$\sigma_{w1}^G = u - y$$

$$f(-2) = 8 - 1 + 4 = (-1) \rightarrow y_{\min}$$

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$$n \leq yx < n+1$$
$$f(x) = n - yx$$

$$R = [-1, +\infty)$$

$$R = [-1, +\infty)$$

$$R = [-1, 0)$$

$$x^2 + 4 \geq 0 \quad x \geq -4 \quad x \geq -\frac{4}{1} \quad D = \left[-\frac{4}{1}, +\infty\right) \quad b = -\frac{4}{1}$$

$$(-\infty, a_{+1}] = (-\infty, \omega]$$

$$a = \sqrt{r}$$

$$f_X\left(\frac{\mu}{\gamma}\right) = -9$$

$$\begin{aligned} x+1 &\geq 0 \quad \boxed{x \geq -1} \\ -x+1 &\geq 0 \quad \boxed{x \leq 1} \\ 1-x^2 &\geq 0 \quad \boxed{-1 \leq x \leq 1} \\ x + \sqrt{1-x^2} &\geq 0 \quad \sqrt{1-x^2} \geq -x \\ \sqrt{1-x^2} &\geq -1 \quad 1-x^2 \geq -1 \\ x^2 &\leq 2 \quad \boxed{-\sqrt{2} \leq x \leq \sqrt{2}} \end{aligned}$$

$$D_g = D_f = [-1, 1]$$

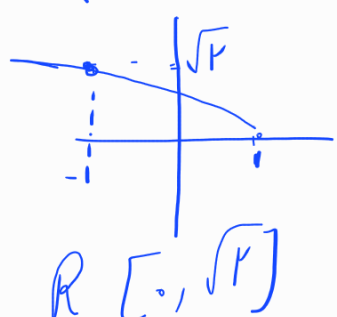
$$g(x) = \sqrt{1+x} \sqrt{1-x} - f(x)$$

$$y = \frac{f}{q} - \frac{A-f}{u} = \frac{f}{q} - \frac{A}{u} + \frac{f}{u} = \frac{f}{v} - \frac{A}{u}$$

$$\sqrt{x+1} + \sqrt[4]{1-x} - \sqrt{x - \frac{1}{n}} \sqrt[4]{1-x} = -1 \leq x \leq 1$$

$$f(n) + g(n) = \sqrt{1+n} + \sqrt{1-n} \xrightarrow{\text{Rajis}} \sqrt{1-n} + \sqrt{1+n}$$

$$\rightarrow g(n) = \sqrt{1+n} - \sqrt{1-n}$$

$$\frac{f(n)}{q} - \frac{g(n)}{r} = \sqrt{1-n}$$


$R [-1, \sqrt{1}]$