

نویسار
۱۹،۷۵ آذرین

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SUBJECT:

Year:

Month:

Day:

$$f(x) = \sqrt{x-4 + 4\sqrt{x-4} + 4} = |\sqrt{x-4} + 2| \quad x \geq 4$$

$$g(x) = \sqrt{x-4 - 4\sqrt{x-4} + 4} = |\sqrt{x-4} - 2|$$

$$(g+f)(x) = 2\sqrt{x-4} \rightarrow a=0, b=2, c=-4 \rightarrow \frac{1}{2}$$

$$D_f = \mathbb{R} - \{0, 1\} \Rightarrow D_f \cap D_g \Rightarrow \{2, 0\}$$

$$g(x) = \{2, 1, 0\}$$

$$f = \{ \left(2, \frac{1}{2}\right), (0, 0) \}$$

$$f(x) = \left\{ \left(\frac{1}{2}, 2\right), \left(\frac{3}{2}, -1\right), \left(\frac{5}{2}, 1\right), \left(-\frac{1}{2}, 4\right) \right\}$$

$$f(x) = \left\{ (1, 2), (-1, 2), (\sqrt{3}, -1), (-\sqrt{3}, -1), (2, 2), (-2, 2) \right\}$$

$$f(g(x) + 1) = \left\{ (-2, 1), (1, 3), (3, 1), (-1, 1) \right\}$$

$$\frac{f}{g} = \left\{ (1, -2), \left(\frac{3}{2}, 1\right) \right\}$$

$$D_h = D_f \cap D_g \quad \left\{ h = \left\{ (1, \omega), (-1, \omega), (1, \omega) \right\} \right. \quad \text{ع}$$

$$D_f = \text{نقطه} [x, y] \text{ و } z = \{x\} \text{ و } y+1 \neq 0 \rightarrow \quad \text{د}$$

$$\sqrt{r^2} \geq r \quad g(r) = [r] + [-r]$$

$$n(n-r) \quad D = \{1, 2, 3\} \quad \text{ب}$$

$$f(n) = \sqrt{-n^2 + 6n - 5} \rightarrow D_f = [1, 5] \quad \text{ق}$$

$$g(n) = \{(1, 2), (2, 2), (3, 4), (5, 1)\} \quad \text{ج}$$

$$D_f \cap D_g = \{1, 2, 5\} \rightarrow h(n) = \{(1, 1), (2, 2), (5, \frac{\sqrt{5}}{2})\}$$

$$x^3 - 3x^2 + 2x - 1 \rightarrow (x-1)^3 = 0 \rightarrow x = 1 \quad \text{الف} \quad \text{د}$$

$$R = R \quad \text{ب}$$

$$y^2 - 2y - 1 = 0 \quad \text{ب}$$

$$\Delta = 2y^2 + 2y \rightarrow y = \frac{-1 \pm \sqrt{1+4}}{2} \rightarrow y = 1 \text{ or } -1 \rightarrow \text{ج}$$

$$x(y+1) \rightarrow x = 0 \text{ or } y = -1 \rightarrow R = (-\infty, 1] \cup (0, +\infty) \quad \text{د}$$



Senobar

با فرض $y \neq 0$ عبارت را درجه ۲ فرض

که ایم Δ صاب نده ایم!

$$y=0 \rightarrow 0=1 \times$$

$$\text{الف) } \frac{-b}{a} = \frac{c}{a} = 2 \rightarrow R = [2, +\infty)$$

(1)

$$\text{ب) } \frac{-b}{a} = \frac{c}{a} \rightarrow R = (-\infty, 2]$$

$$\text{ج) } y = -1 \rightarrow R = [0, +\infty)$$

$$\text{د) } y = 1 \rightarrow R = [0, 1]$$

$$\text{الف) } R = R \quad \text{ب) } R = R \quad \text{ج) } R = [0, +\infty)$$

(9)

$$\text{د) } R = [0, +\infty)$$

لایحه و اظهارات

تجزیه و تحلیل

$$\text{الف) } R = R - \{0\} \rightarrow R - \{0\}$$

$$\text{ب) } R = R - \{0\}$$

$$\text{ب) } y = \frac{1}{x^2 - x} \rightarrow x^2 y - x y = 1 \rightarrow x^2 y - x y - 1 = 0$$

$$y \neq 0 \rightarrow x = \frac{y \pm \sqrt{y^2 + 4y}}{y} \rightarrow y(y+1) \geq 0 \rightarrow \frac{-1}{2} \leq y \leq 0$$

$$y = 0 \rightarrow 0 = 1 \times \text{صفتی وجود ندارد!} \rightarrow R_f = (-\infty, -1] \cup (0, +\infty)$$