

یازدهم B

سری 4

۲. از بین عالی نوشتار

ماریان اسن الرعایا

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$$2f(a) = f(-a) + a \rightarrow 2(a+1)(v) = 2a - 1 + a$$

$$12a + 12 = 2a - 1 \rightarrow 10a = -13 \rightarrow a = \frac{-13}{10} \quad \text{ب. } \frac{-9}{5}$$

$$f(x) = \sqrt{x} + \frac{1}{\sqrt{x}} + 2$$

$$x = 2 + \sqrt{2} \rightarrow \frac{1}{2 - \sqrt{2}} \times \frac{2 + \sqrt{2}}{2 + \sqrt{2}} = \frac{2 + \sqrt{2}}{4 - 2} = 2 + \sqrt{2} \rightarrow x + \frac{1}{x} = 2 + \sqrt{2} + \frac{1}{2 + \sqrt{2}} = 4$$

$$f(2 - \sqrt{2}) + f(2 + \sqrt{2}) \rightarrow f(2 - \sqrt{2}) = f(2 + \sqrt{2}) \rightarrow 2f(2 + \sqrt{2}) = 4 + 2\sqrt{2}$$

$$\left(\sqrt{x} + \frac{1}{\sqrt{x}}\right)^2 = x + \frac{1}{x} + 2 \rightarrow 4 + 2\sqrt{2} = \left(\sqrt{x} + \frac{1}{\sqrt{x}}\right)^2 \rightarrow \sqrt{x} + \frac{1}{\sqrt{x}} = \sqrt{4 + 2\sqrt{2}} = \sqrt{2} + 2 \rightarrow f(2 + \sqrt{2}) = \sqrt{2} + 4$$

$$\begin{cases} 2f(x) - 2f(-x) = (x^2 - x) \\ 2f(x) - 2f(-x) = (x^2 - x) \times x^2 \end{cases} \rightarrow \begin{cases} f(x) - 4f(-x) = 12x^2 - 2x \\ -9f(x) + 4f(-x) = 12x^2 + 2x \end{cases}$$

$$\begin{cases} 2f(x) - 2f(-x) = (x^2 + x) \\ -2f(x) + 2f(-x) = (x^2 + x) \times x^2 \end{cases} \rightarrow \begin{cases} -9f(x) + 4f(-x) = 12x^2 + 2x \\ -9f(x) + 4f(-x) = 12x^2 + 2x \end{cases}$$

$$-5f(x) = 12x^2 + 2x$$

$$L \left(\frac{12x^2 + 2x}{-5} \right)$$

$$\Rightarrow f(x) = \frac{12x^2 + 2x}{-5}$$

$$15 \quad (x+2)f(x) - 2xf(x+2) = (x^2 - mx + m - 1)$$

$$x=0 \rightarrow 2f(0) = m - 1$$

$$\begin{cases} 2f(0) = m - 1 \quad (x=0) \\ 4f(0) = 2m + 1 \quad (x^2) \end{cases} \rightarrow \begin{cases} -12f(0) = -12m + 12 \\ 12f(0) = 12m + 12 \end{cases}$$

$$12f(0) = 0 \rightarrow f(0) = \frac{0}{12} = 0 \quad \text{ب. } \frac{20}{3}$$

$$20 \quad f(x) + f\left(\frac{1}{x}\right) = \frac{2x^2 - 12x + 2}{x} \rightarrow ax + b + \frac{a}{x} + b = a\left(x + \frac{1}{x}\right) + 2b$$

$$\rightarrow \frac{2x + \frac{2}{x} - 12}{2} \Rightarrow a = 2, b = -4 \quad f(x) = 2x - 4$$

$$f(-1) = -6$$

$$25 \quad f(x) = (x+1)\sqrt{1-x} \rightarrow 1-x \geq 0 \rightarrow x \leq 1 \rightarrow D_f = (-\infty, 1]$$

$$g(x) = -\sqrt{(1-x)^2} \rightarrow (1-x)^2 \geq 0 \rightarrow 1-x \geq 0 \rightarrow x \leq 1 \rightarrow D_g = (-\infty, 1]$$

$$f(x) = x\sqrt{x} \rightarrow x \geq 0 \rightarrow D_f = [0, +\infty)$$

$$g(x) = \sqrt{x^2} \rightarrow x^2 \geq 0 \rightarrow x \geq 0 \rightarrow D_g = [0, +\infty)$$

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$$f(n) = [\sqrt{n} - [\sqrt{n}]] \rightarrow D_f = [0, 1) \quad \text{خطه 0} \quad \text{1}$$

$$g(n) = \sqrt{n - |n|} \rightarrow n - |n| \geq 0 \rightarrow n \geq |n| \rightarrow D_g = [0, 1) \quad \text{خطه 0} \quad \text{2}$$

$$\sqrt{n} - [\sqrt{n}] \rightarrow \sqrt{n} - [\sqrt{n}] \quad \text{بافتراضی}$$

بافتراضی بافتراضی

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$$\left(\frac{f+g}{f-g} \right)(1) = \frac{r+1}{r-1} = \frac{2}{0} \quad \text{خطه 0}$$

$$\left(\frac{f+g}{f-g} \right)(r) = \frac{r+r}{r-r} = \frac{2}{0} \rightarrow \text{خطه 0}$$

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$$f(0) * g(-1) = 0 \quad \text{خطه 0}$$

$$g(n) = f(n-1) \rightarrow g(n) = \left[\left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \right] \quad \text{خطه 0}$$

$$h(n) = f(n) \rightarrow h(n) = \left[\left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \left(\frac{1}{2} \right) \right] \quad \text{خطه 0}$$

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