

۲. افسین عالی فوسے

Date _____

Subject

9 فصل

«ک نام خدا»

امیر علی میرزا

$$f(a) = (a+1)(v) = Va + v = f(a) = (f(a)+1)^2$$

$$f(-r), ra - r \rightarrow f(u) = \frac{ra + 1}{1 \cdot a} = \frac{ra}{-11} + a$$

→ a s - 1,1 D

$$y - \mu + \sqrt{n} + \frac{1}{\sqrt{n}} \rightarrow (y - \mu)^2 = n + \frac{1}{n} + \mu$$

$$\rightarrow (y - r)^r, \quad r + \sqrt{r} + r - \sqrt{r} + r, \quad y - r, \sqrt{y} \rightarrow y, \sqrt{y} + r$$

$$\rightarrow (y-x)^r, \quad r=\sqrt{r} + r + \sqrt{r} + r, \quad y - r, \quad y - r, \quad y - r, \quad y - r$$

$$\rightarrow (\sqrt{4} + 1) \times 15 \quad \boxed{15\sqrt{4} + 15} \quad \text{D}$$

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$$\underline{x} \rightarrow \begin{matrix} \text{✓} \\ \text{✓} \end{matrix} f(x) - \begin{matrix} \text{✓} \\ \text{✓} \end{matrix} f(-x) = 2x^2 - x \quad \underline{-x}, \quad \begin{matrix} \text{✓} \\ \text{✓} \end{matrix} f(-x) - \begin{matrix} \text{✓} \\ \text{✓} \end{matrix} f(x) = 2x^2 + x$$

$$\rightarrow \begin{matrix} \text{✓} \\ \text{✓} \end{matrix} f(x) - 4 f(-x) = 4x^2 - 2x \\ -9 f(x) + 4 f(-x) = 12x^2 + 2x$$

$$\rightarrow -\Delta f(x) = 2 \cdot x^2 + x \rightarrow f(x) = 2x^2 - \frac{x}{4} \quad \text{P}$$

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برای بند،

$$\left. \begin{aligned} f(n) &= n\sqrt{n} \rightarrow n, 0 \\ g(n) &= \sqrt{n^3} \rightarrow n, 0 \end{aligned} \right\} \text{ یکسان}$$

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$$\xrightarrow{\text{عدد ۲}} 2\sqrt{2} \quad \sqrt{8} \rightarrow \text{برابرند} \rightarrow \text{۲ تا ۲ برابرند}$$

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$$f(n) = [\sqrt{n} - [\sqrt{n}]] \rightarrow n, 0$$

$$g(n) = \sqrt{n - |n|} \rightarrow n - |n|, 0 \rightarrow n, |n| \rightarrow \frac{n \in \mathbb{R}^+ \cup \{0\}}{n, 0}$$

$$\xrightarrow[\text{۲ تا ۲}]{\text{عددگذاری}} [\sqrt{2} - 1], 0 \quad , \quad \sqrt{2} - |\sqrt{2}| \checkmark, 0 \quad \checkmark \text{ برابرند}$$

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

$$\text{ب)} \left(\frac{f+g}{f-g} \right)(2) \rightarrow f(2) = 3, g(2) = 3 \rightarrow \frac{3+3}{3-3} \rightarrow \boxed{\text{تعریف نشده}}$$

$$\text{ج)} f(0) \times g(-1) \Rightarrow f(0) = 0, g(-1) = 1 \rightarrow \boxed{0 \times 1 = 0}$$

$$\text{الف)} g(n) = f(3n-1) \rightarrow \left\{ (1, 1), (0, 4), \left(\frac{1}{3}, 5 \right), \left(-\frac{1}{3}, 2 \right), \left(\frac{2}{3}, -1 \right) \right\}$$

$$\text{ب)} h(n) = f(|n|) \rightarrow \left\{ (2, 1), (-2, 1), (0, 5), (3, -1), (-3, -1) \right\}$$