

آرین سفارده را بنویسید ۲. آزمون

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

$$\sqrt{x-3} + \frac{1}{\sqrt{x-3}} + \sqrt{x+3} + \frac{1}{\sqrt{x+3}} + \frac{1}{\sqrt{x}}$$

$2(V)(a+1) + f(a+1) = fa - f$ (۱)

$\Rightarrow f(a+1) + fa - f \log = -18$

$a = 1/18$

$\Rightarrow \sqrt{x-3} = \frac{1}{\sqrt{x+3}} \Rightarrow 2(\sqrt{x-3} + \sqrt{x+3}) + f$

$\sqrt{(\sqrt{x-3} + \sqrt{x+3})^2} = f + 2\sqrt{x-3} + 2\sqrt{x+3} + f$

$f'(u) - f'(-u) = m^2 - m \Rightarrow f'(u) - 9f'(-u) = 11m^2 - 11m$ (۳)

$f'(u) - f'(-u) = f'u^2 + m^2 - 9f'(-u) + 9f'(-u) = 11m^2 + 11m$

$\Rightarrow -5f'(u) = 10m^2 + m \Rightarrow f'(u) = -\left(\frac{f'u^2 + m}{5}\right)$

$f'(0) = 11m - 1 \Rightarrow f'(0) = \frac{11m-1}{5} \Rightarrow 9m - 3$ (۴)

$4f'(0) = 14 + 11m + 11m - 1 \Rightarrow 11 \Rightarrow f'm = m \Rightarrow \frac{11}{5}$

$\Rightarrow f'(0) = \frac{11}{5} \cdot \frac{f}{5} = \frac{f}{5} \Rightarrow f'(0) = \frac{f}{5}$

$f'(1) = \frac{3+12+3}{-1} = -18 \Rightarrow f'(1) = -9$ (۵)

$D_f: [-\infty, 1] \rightarrow -(1-u)\sqrt{1-u} = f(u)$ (۶)

$D_g: [-\infty, 1] \rightarrow -\sqrt{(1-u)^2 \times (1-u)} = -|1-u| \times \sqrt{1-u} = -|1-u| \cdot (1-u)$

$\Rightarrow g(u) = -(1-u)\sqrt{1-u} \Rightarrow$ (درست جوابه)

$D_f = [0, +\infty) \quad f(u) = u\sqrt{u}$ (۷)

$D_g = [0, +\infty) \quad g(u) = \sqrt{u \times u} = |u|\sqrt{u} \Rightarrow |u| = u \Rightarrow g(u) = u\sqrt{u}$

$\Rightarrow$ (درست جوابه)

$D_f = [0, +\infty) \xrightarrow{t \rightarrow \sqrt{n}} [t - [t]] = 0 \Rightarrow f(u) = 0$ (۸)

$D_g = [0, +\infty) \xrightarrow{u \rightarrow 0} \sqrt{n-u} \rightarrow \sqrt{0} = 0 \Rightarrow g(u) = 0$

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

ج) $f(1)g(1) = 0$

ب) $\left(\frac{f+g}{f-g}\right)(2) = \frac{0}{0}$ تعريف نسبه

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

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