

Date:

ت ٤ Sub:

یازدهم ذی قعد ١٣٩٧

کویته برامی

$$Pa \quad rf(\omega) = f(-r) + a$$

$$f(x) = \begin{cases} (a+1)(x+r) & ; x > 1 \\ Pa + r & ; x < 1 \end{cases} \quad (1)$$

$$1 \cdot a + 1 \cdot r = r \cdot a - r$$

$$1 \cdot a = -1 \cdot a \Rightarrow a = -1 \cdot a$$

$$\frac{f(r-\sqrt{3})}{a} + \frac{f(r+\sqrt{3})}{b}$$

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

$$ab = \sqrt{(r-\sqrt{3})(r+\sqrt{3})} = 1 \quad a = \frac{1}{b}, b = \frac{1}{a}$$

$$\star f(r-\sqrt{3}) = a + b + r \quad \star f(r+\sqrt{3}) = b + a + r$$

$$\star \rightarrow r + r(a+b)$$

$$(r-\sqrt{3}) + (r+\sqrt{3}) = r$$

$$(a+b)^2 = a^2 + b^2 + 2ab = 5 \quad \star a+b = \sqrt{5}$$

$$\star \star = r + r\sqrt{5}$$

$$f(x) \text{ ثابت آید} \quad (3)$$

$$rf(x) - rf(-x) = rx^m - x$$

$$f(x) = -rx^m - \frac{x}{\omega}$$

$$-rf(x) + rf(-x) = rx^m + x \quad \times \frac{m}{r}$$

$$-r \Delta f(x) = 1 \cdot x^r + \frac{1}{r} x$$

$$\Delta f(x) = \frac{1}{r} x^r + \frac{1}{r}$$

$$\int f(x)$$

$$(x+r)f(x) - rf(x+r) = rx^m + rm - 1 \quad (4)$$

$$x = -r$$

$$sf(0) = 15 + \omega \cdot m = 1$$

$$x = 0$$

$$xr \cdot rf(0) = rm - 1$$

$$rm = 1 \quad m = \frac{1}{r} = \frac{1}{15}$$

$$rf(0) = \frac{r}{r} - \frac{1}{r} = \frac{r-1}{r}$$

$$f(0) = \frac{r-1}{r}$$

$$\frac{ax+b}{x} + \frac{a}{x} + b = \frac{ax^2 + a + bx}{x} = \frac{3x^2 - 12x + 3}{x}$$

$f(-1)$   
(6)

$$x \Rightarrow 1 \rightarrow 2f(-1) = 3 + 12 + 3$$

$$f(-1) = -9$$

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

$$1-x \geq 0 \quad 1 \geq x$$

(6) تساوی برسی شود

$$g(x) = -\sqrt{(1-x)^3}$$

$$1-x \geq 0 \quad 1 \geq x$$

$$D_f = D_g \rightarrow 1 \geq x \quad R_f = R_g \rightarrow$$

$$g(x) = -\sqrt{(1-x)^3(1-x)} \xrightarrow{x=1} \frac{-(1-x)\sqrt{(1-x)}}{x-1} = (x-1)\sqrt{(1-x)}$$

مساوی

$$f(x) = x\sqrt{x}$$

$$x \times x^{\frac{1}{2}} = x^{\frac{3}{2}}$$

(7) برسی تساوی

$$g(x) = \sqrt{x^3}$$

$$x^{\frac{3}{2}}$$

مساوی

$$f(x) = \left[ \sqrt{x} - \left[ \sqrt{x} \right]_{\substack{v.v \\ v.v}} \right]$$

$$R = \{0\}$$

$$\sqrt{x} \rightarrow x \geq 0$$

(1) تساوی برسی شود

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

$$x > 0 \rightarrow 0$$

$$D_g \Rightarrow x > 0 \quad R = \{0\}$$

مساوی

$$F = \{(1,2), (2,3), (3,1), (0,0)\}$$

$$g = \{(-1,1), (1,1), (2,3), (3,5), (0,2), (\sqrt{5},1)\}$$

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

$$\left[ \frac{f+g}{f-g} \right](2) \rightarrow \frac{(2,5)}{(2,0)} = \frac{5}{0} \quad \text{X}$$

$$\text{ج) } f(0)g(-1) \quad (0,0) \quad (-1,1)$$

$$1 \times 0 = 0$$

$$(2,1) \quad (-1,2) \quad (0,5) \quad (-2,2) \quad (3,-1)$$

$$\text{الف) } g(x) = f(x-1)$$

$$-1 = 3x-1 \quad x=0$$

$$(0,2)$$

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

$$2 = 3x-1 \quad x=1$$

$$(1,1)$$

$$\left( \frac{5}{3}, -1 \right)$$

$$0 = 3x-1 \quad x=\frac{1}{3}$$

$$\left( \frac{1}{3}, 5 \right)$$

$$\left( \frac{5}{3}, -1 \right)$$

$$g(x) \quad (1)$$

$$\text{ب) } h(x) = f(|x|) \quad h(x) = \{(0,5) \quad (+2,1) \quad (-2,1) \quad (-3,1) \quad (3,1)\}$$

$$|x| = 2 \quad x = \pm 2$$

$$|x| = 3 \quad x = \pm 3$$