

ماتریس معکوس و هم تقابلی و متر...

$$(aH)(x+p)$$

$$f(x) = V(aH)$$

$$f(-p) = Ca - f$$

$$pf(x) = f(-p) + a$$

$$pa + p^2$$

$$12a + 1f = pa - f$$

$$12a = -11 \rightarrow a = -\frac{9}{12}$$

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

$$\boxed{2\sqrt{p} + f}$$

$$\sqrt{p-\sqrt{p}} + \frac{1}{\sqrt{p-\sqrt{p}}} = \sqrt{p-\sqrt{p}} + \sqrt{p+\sqrt{p}}$$

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

$$f - p - \sqrt{p} + \sqrt{p} + \sqrt{p-\sqrt{p}} + \sqrt{p+\sqrt{p}} = 2\sqrt{p} + f - p - \sqrt{p} + \sqrt{p} + p = 2\sqrt{p} + f - p + p = 2\sqrt{p} + f \rightarrow A = \sqrt{p}$$

$$(pf(x) - pf(-x)) = \epsilon x^p - \omega$$

$$(pf(-x) - pf(x)) = \epsilon x^p + \omega$$

$$-\omega f(x) = \epsilon x^p + \omega \rightarrow f(x) = -\epsilon x^p - \frac{\omega}{\omega}$$

$$(x+p)f(x) - px f(x+p) = \epsilon x^p - m\omega + p\omega - 1$$

$$(x=-p) \Rightarrow pf(0) = 1\omega + \omega m - 1 \rightarrow f(0) = \frac{1\omega + \omega m - 1}{p}$$

$$x=0 \Rightarrow pf(0) = p\omega m - 1 \rightarrow f(0) = \frac{p\omega m - 1}{p}$$

$$f(0) = \frac{p\omega m - 1}{p} = \frac{p\omega}{p} = \omega$$

$$\frac{p\omega m - 1}{p} = \frac{1\omega + \omega m - 1}{p}$$

$$p\omega m - 1 = 1\omega + \omega m - 1 \Rightarrow m = \frac{1}{p}$$

$$f(x) + f\left(\frac{1}{x}\right) = \frac{p\omega x^p - 1\omega + p\omega}{x}$$

$$f(x) = p\omega x - \omega \Rightarrow f(-1) = -\omega$$

$$ax + b + \frac{a}{x} + b = \frac{p\omega x^p - 1\omega + p\omega}{x}$$

$$ax^p + bx + a = \frac{p\omega x^p - 1\omega + p\omega}{x} \Rightarrow \boxed{a=p\omega} \boxed{b=-\omega}$$

$$f(x) = (x-1)\sqrt{1-x} \rightarrow Df \in (-\infty, 1]$$

$$f(x) = -\sqrt{(x-1)^p(1-x)} \rightarrow \frac{-|1-x|}{(m-1)} \sqrt{(1-x)} \quad \text{راست برای } x = 1 \text{ و چپ برای } x = -1$$

$$x \sqrt{x} \quad \text{مسئله 1} \quad Df = x > 0$$

فاصله ها برابر
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$$\sqrt{x} \quad Df = x > 0$$

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$$Df = x > 0$$

$$f(x) = [\sqrt{x} - [\sqrt{x}]] = [\sqrt{x}] - [\sqrt{x}] = 0$$

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

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$$Dg = x > 0$$

$$g(x) = 0$$

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$$\begin{aligned} & \xrightarrow{p} \xrightarrow{1} \\ & \text{الف) } \frac{f(1)+g(1)}{1} = \frac{1}{1} = 1 \end{aligned}$$

$$\text{ب) } \frac{f(1)-g(1)}{f(1)+g(1)} = \frac{0}{2} = 0$$

$$\text{ج) } f(1) \times g(-1) = 0 \times 1 = 0$$

$$g(x) = f(2x-1)$$

$$2x-1=1 \rightarrow x=1$$

$$2x-1=-1 \rightarrow x=0$$

$$2x-1=0 \rightarrow x=\frac{1}{2}$$

$$2x-1=1 \rightarrow x=1$$

$$2x-1=0 \rightarrow x=\frac{1}{2}$$

$$h(x) = f(1/x) \rightarrow$$

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$$h(x) = \left\{ (1/x, 1) (0, 1) (1/x, -1) \right\}$$