

اسرار کشف

$$f(0) = 1$$

$$f(r) = 0 \Rightarrow \frac{d}{dr} = \frac{d-1}{r} \left(\frac{r}{r} \right)$$

$$= f'(r)$$

(1)

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

~~$$f(r) = \frac{1}{r} \Rightarrow f'(r) = -\frac{1}{r^2}$$~~

(2)

معادله

$$y-1 = \frac{1}{r} (a+1) \Rightarrow y = \frac{1}{r} a + \frac{1}{r}$$

مس

~~$$f(r) = \frac{1}{r} \Rightarrow f'(r) = -\frac{1}{r^2}$$~~

$$\sqrt{a+1} = \frac{1}{r} a + \frac{1}{r} \Rightarrow a^2 + (1-a)a + 0 = 0 \Rightarrow \Delta \geq 0$$

$$\sigma_{\min} \omega_{\max} \leq a \leq -\frac{r}{a}$$

$$f(r) = \sqrt{r+1} \Rightarrow f(0) = 1 \Rightarrow a = r$$

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(3)

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$$(r' - f') \left(\frac{r}{r} \right)$$

$$f(r) = \frac{r \sin \theta}{(r \sin \theta)^2} (r \sin \theta + r \sin \theta)$$

(4)

$$f(r) = \frac{r \cos \theta}{(r \sin \theta)^2}$$

$$f(r) = \frac{(r \sin \theta + r \cos \theta) (r \sin \theta) - \cos \theta (r \sin \theta + r \cos \theta)}{(r \sin \theta)^2}$$

$$(f'g - fg')(x) = \frac{-9\cos u - 2\sin^2 u \cos u - 4\sin u \cos u}{(4\sin u)^2} \quad u = \frac{\pi}{4} \Rightarrow \frac{-9 - \frac{\pi}{4} + \frac{\pi}{4}\sqrt{2}}{\left(\frac{4-\sqrt{2}}{2}\right)^2}$$

$$g'(\sqrt{x}) f'(g(\sqrt{x})) = (f \circ g)'(\sqrt{x})$$

$$f \circ g(x) = \frac{-1}{\omega \sqrt{x \left(\frac{1}{x^2} + y\right)}} = -4 \Rightarrow (f \circ g)'(\sqrt{x}) = (-1)$$

$$f(x) = a g(x) + 1 \Rightarrow g(x) = \frac{f(x) - 1}{a} = \left(\frac{-1 + \sin x}{1 + \sin x} \right)^2$$

$$\Rightarrow \lim_{x \rightarrow 0} g(x) = \frac{2 \left(\frac{-1 + \sin x}{1 + \sin x} \right) \left(\cos x (1 + \sin x) - \cos x (-1 + \sin x) \right)}{(1 + \sin x)^2} = 2(-1) \left(\frac{1+1}{1} \right) = -4$$

$$y = -(x^2 + 1) \Rightarrow f(x) = -2x \quad f(x), f(-x) = -1$$

$$(-2x)(2x) = -1 \Rightarrow x = \frac{1}{2} \quad x > 0 \Rightarrow x = \frac{1}{2} \Rightarrow f\left(\frac{1}{2}\right) = -1 \Rightarrow \text{نقطه هم فاصله}$$

$$f(x) = \frac{f(x) - f(0)}{x} = \frac{(\sqrt{x}(x^2 + 3))}{x} = \frac{\sqrt{x}(x^2 + 3)}{x} = \frac{\sqrt{x}}{x} (x^2 + 3) = \frac{1}{\sqrt{x}} (x^2 + 3)$$

$$\Rightarrow 1 \cdot x^2 + 3 = 2 \cdot x^2 + 3 \Rightarrow 1 \cdot x^2 = 2 \cdot x^2 \Rightarrow x^2 = \frac{1}{2} \Rightarrow x = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

$$\Delta_{\text{نسب}} = \frac{f(n) - f(n-1)}{n-1} = \frac{\sqrt{n}}{(-2n^2 + n + 1)n}$$

$$f(n) = \frac{-2n^2 + n + 1}{2\sqrt{n}} - \frac{\frac{\varepsilon n \sqrt{n} - \sqrt{n}}{(-2n+1)(\sqrt{n})}}{(-2n^2 + n + 1)n} \Rightarrow \frac{\sqrt{n}}{(-2n^2 + n + 1)n} = \frac{f(n) - n + 1}{(2\sqrt{n})(-2n^2 + n + 1)}$$

$$= \frac{-2n^2 + n + 1 + 1n^2 - 2n}{2\sqrt{n}} = \frac{-n^2 - n + 1}{2\sqrt{n}}$$

$$(4n^2 - n + 1) = -n^2 + 5n + 1$$

$$10n^2 - 7n - 12 \Rightarrow \frac{10 \pm \sqrt{149}}{2} \quad \left(\frac{1}{p} \right) \Rightarrow f\left(\frac{1}{c}\right) = \frac{\frac{1}{\sqrt{r}}}{\frac{1}{r} \cdot \frac{1}{2} + 1} = \frac{\sqrt{r}}{c}$$

$$\left(\frac{1}{a} \right) \checkmark$$

$$g(n) = \frac{-n}{(n-1)\sqrt{n-1}} \Rightarrow g\left(\frac{\sqrt{5}}{c}\right) = -\varepsilon\sqrt{5}$$

$$f(n) = (n[n])^2 \Rightarrow f'(n) = 2n(n[n]) [n]$$

$$n \rightarrow \left(\frac{\sqrt{5}}{c}\right)^2 \Rightarrow g(n) = r^4$$

$$y' = g'(n) f'(g(n)) \Rightarrow y'\left(\frac{\sqrt{5}}{c}\right) = -\varepsilon\sqrt{5} f'(r^4) = -\varepsilon\sqrt{5} n^2(\varepsilon^2) \alpha c z$$

$$-\varepsilon\sqrt{5} \alpha n$$

المبراه