

$$y_r = -n^r - 1 \rightarrow y_r' = -rn$$

$$-rn_1 \times -rn_2 = -1 \Rightarrow n_1 = -\frac{1}{r}, n_2 = \frac{1}{r}$$

$$\Rightarrow y_r = -\frac{d}{r} \Rightarrow d: y = -\frac{d}{r} \Rightarrow \text{دولت از } \frac{d}{r}$$

$$f'(n) = \frac{1}{\sqrt{n}} (5n^2 + 3) + 2\sqrt{n} (\ln n)$$

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چون مشتق از هر کس از هر معنی را (n) ...

$$\frac{1}{\sqrt{n}} (5n^2 + 3) + 2\sqrt{n} (\ln n) = 1$$

$$f(n) = f'(n)$$

مشتق تابع مبدأ از در نتیجه

$$\Rightarrow n = \frac{1}{r} \Rightarrow f(n) = 4\sqrt{r}$$

$$\frac{\sqrt{n}}{-rn^2 + n + 1} = mn \Rightarrow m\sqrt{n} = \frac{1}{-rn^2 + n + 1}$$

$$(m\sqrt{n})' = \left(\frac{1}{-rn^2 + n + 1} \right)' \Rightarrow \frac{m}{r\sqrt{n}} = \frac{5n-1}{(-rn^2 + n + 1)^2}$$

$$rn = \frac{-rn^2 + n + 1}{5n-1} \Rightarrow n = \frac{1}{r} \Rightarrow f\left(\frac{1}{r}\right) = \frac{\sqrt{r}}{r}$$

$$(f \circ g)'(n) = g'(n) f'(g(n))$$

$$g'(n) = -n(n^r - 1)^{-\frac{r}{r}}$$

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

$$\Rightarrow (f \circ g)' \left(\frac{\sqrt{2}}{r} \right) = -99\sqrt{2}$$

بزرگ

Arman

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

$$f'(A) = \frac{1}{r} \quad f'(n) = \frac{a}{r\sqrt{an-1}} \Rightarrow \begin{matrix} a=r \\ n=0 \end{matrix}$$

$$\Rightarrow f'(a) = r$$

$$f'(n) = \frac{n^r + 9n + 3^m - 1}{(n+3)^r}$$

$$f'(1) = \frac{r}{r} \Rightarrow m=3 \Rightarrow f(1) = \frac{0}{r} \Rightarrow n=2 \Rightarrow m+n=5$$

$$f(n) = \frac{(r - \sin n)(9 + 3 \sin n + \sin^2 n)}{(r - \sin n)(r + \sin n)}$$

$$r g - f(n) = \frac{-r \sin n - \sin^2 n}{r + \sin n} = -\sin n \Rightarrow (r g - f)'(n) = -\cos n$$

$$\Rightarrow (r g - f)'(\frac{2\pi}{r}) = -\frac{1}{r}$$

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

$$f \circ g(n) = -n \Rightarrow (f \circ g)'(n) = -1 \Rightarrow (f \circ g)'(\sqrt{r}) = -1$$

$$g(n) = \frac{f(n) - 1}{n} \quad \lim_{n \rightarrow 0} g(n) = \frac{(\frac{\sin n - 1}{\sin n + 1})^r - 1}{n}$$

$$\stackrel{\text{L'Hôpital}}{=} \frac{(\frac{n-1}{n+1})^r - 1}{n} = \frac{0}{0} \stackrel{\text{Hôpital}}{=} r \left(\frac{n-1}{n+1} \right) \left(\frac{r}{(n+1)^r} \right) = -r$$