

$$m = \frac{a-1}{r-0} = \frac{r}{r} \rightarrow P'(r) = \frac{r}{r} \quad (1)$$

$$\frac{r-1}{r-(-1)} = \frac{1}{r} \quad \frac{1}{r}n + \frac{r}{r} = 9 \quad (2)$$

$$\frac{1}{r}n + \frac{r}{r} = \sqrt{an-1} = (a+r)^r = 9(an-1)$$

$$n^r + 18n + 19 = 9an - 9 \Rightarrow n^r + 18 - 9a(n) + 19 = -$$

$$18 - 9a = -10 = 8 \quad 18 - 9a = -10 \rightarrow 9a = 18 = 2 \quad (3)$$

$$P(n) = \sqrt{rn-1} \rightarrow P(2) = \sqrt{9} = 3 \quad (4)$$

$$rn^r + mn + 9n + r^2m$$

$$\frac{n^r + mn + 1}{n+r} = \frac{(n^r + mn + 1) - (n+r)(rn+m)}{n+r} \quad (5)$$

$$n^r + 9n + 9$$

$$n^r + mn + 1 - rn^r - (m+9)n - r$$

$$-n^r - 9n - r$$

$$n^r + 9n + 9$$

$$\frac{rn+n}{r} = \frac{n^r + mn + 1}{n+r} \quad (6)$$

$$r+n = r+m \rightarrow m = n+1 \quad rn+1 = m+n$$

$$(rn+n)(n+r) = r(n^r + mn + 1)$$

$$rn^2 + 9n + n^2 + rn = rn^r + mn + r \quad m+n = rn+1 \quad (7)$$

$$n^2 + (m-9-n)n + r - rn$$

۳ شبیه ۲ند پس توانم اینی بهخونه منسبت

Arman

$$(m-9-n)^r = f(r-m) = 0 \quad n=1 \quad m=r$$

$$f(x) = \frac{(P - \sin x)(\sin^2 x - \cos \sin x + 1)}{(P - \sin x)(\cos + \sin x)} \quad (r)$$

$$f(x) = \frac{\sin^2 x + P \sin x + 1}{P + \sin x}$$

$$Pg(x) = \frac{1}{\sin x + r}$$

$$Pg(x) = f(x) = \frac{-P \sin x + \sin^2 x}{\cos + \sin}$$

$$-\sin x = Pg(x) - f(x) \quad (P)$$

$$\rightarrow -\cos x \cdot P(x) \rightarrow (-V_r)$$

$$f_{\log}(\sqrt[r]{r}) = ? \quad (4)$$

$$f(m) = \frac{-1}{\sqrt[r]{rn}} \quad g(m) = \frac{1}{rna} \rightarrow f_{\log}(m) = \frac{-1}{\frac{1}{a}} = -a$$

$$f_{\log} = -a \rightarrow f_{\log} = -1$$

$$g(m) = \frac{f(m) - a}{m} \quad f(m) = \left( \frac{-1 + \sin a}{1 + \sin a} \right)^m \quad (4)$$

$$\frac{a^r - rn + 1 - a^r + rn^r + a}{(a^r - rn + 1) a}$$

$$\left( \frac{a-1}{1+a} \right)^r = \frac{a^r - rn + 1}{a^r + rn + 1}$$

$$\frac{a^r - rn + 1 - a^r - rn^r - a}{a^r + rn^r + a} \quad (2)$$

$$rn - r - rn^r - a - 1$$

$$\frac{rn^r + a - 1}{a} = -r$$

$$y = -a^r - 1 \quad (4)$$

$$-ra = \pm 1 \rightarrow a = \pm 1/r$$

$$y = -(a^r + 1) \rightarrow \begin{matrix} -1/r \rightarrow -0/1 \\ 1/r \rightarrow -0/1 \end{matrix}$$

فانها ليست بعداً مستقلة

Arman

$$m \frac{d}{dt} = r \alpha^{1/r} (r \alpha^r + r)$$

$$\frac{m}{r} = r \alpha^{r/r} + r \alpha^{-1/r}$$

$$0 = r \alpha^{1/r} - \frac{r}{r} \alpha^{-1/r} = 0 \rightarrow r \alpha^r - \frac{r}{r} = 0 \rightarrow \alpha = +1/r$$

$$\sqrt{r} (r) = r \sqrt{r} \quad m \frac{d}{dt} = r \sqrt{r} \rightarrow m = r \sqrt{r}$$

$$m \frac{d}{dt} = \frac{r}{\alpha}$$

$$-r \alpha^r + \alpha + 1$$

$$\frac{1}{m} = -r \alpha^{r/r} + \alpha^{r/r} + \alpha^{1/r}$$

$$\downarrow -r \alpha^{r/r} + \alpha^{r/r} + \alpha^{1/r}$$

$$-r \alpha^r + \alpha^r + 1/r \rightarrow -r \alpha^r + r \alpha + 1$$

$$\rightarrow \alpha = 1/r$$

$$P(\alpha) = \frac{r \alpha}{-r \alpha^r + \alpha + 1} = \frac{r/r}{-1/r + 1/r + 1} = \frac{1}{1} = 1$$

$$P(\alpha) = \alpha^r \rightarrow P'(\alpha) = r \alpha^{r-1}$$

$$g(\alpha)' = \left( \frac{-\alpha}{(\sqrt{\alpha^2 - 1})^2} \right) \times P'(g(\alpha))$$

$$\frac{-\frac{\alpha}{r}}{\left(\frac{1}{r}\right)^2} = -r \sqrt{\alpha} \times r = -r^2 \sqrt{\alpha}$$

اجزاء

Arman

$$g(x) = \frac{f(x) - 1}{x} \rightarrow \lim_{x \rightarrow 0} g(x) = f'(0)$$

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$$f'(x) = \frac{r}{(1 + \sin x)^2} \times (\cos x \times r \left( \frac{\sin x - 1}{1 + \sin x} \right)) \rightarrow f'(0) = \frac{r}{1} \times 1 \times -r = -r = -\varepsilon$$

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

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$$g'\left(\sqrt{\frac{\Delta}{r}}\right) = -\frac{1}{r} (\sqrt{\Delta}) \left(\frac{\Delta}{2} - 1\right)^{-\frac{r}{r}} \rightarrow -\frac{\sqrt{\Delta}}{r} \left(\frac{-r(-\frac{r}{r})}{1}\right) = -r\sqrt{\Delta}$$

$$g\left(\sqrt{\frac{\Delta}{r}}\right) = \frac{1}{\sqrt{\frac{\Delta}{2} - 1}} = \frac{1}{\sqrt{\frac{1}{2}}} = \frac{1}{\frac{1}{\sqrt{2}}} = \sqrt{2}$$

$$f'(r^+) = ((r x)^r)' = r x^{r-1} = r x \varepsilon$$

$$f \circ g'\left(\sqrt{\frac{\Delta}{r}}\right) = -r\sqrt{\Delta} \times r x \varepsilon \stackrel{\div -r\sqrt{\Delta}}{\rightarrow} \frac{r x \varepsilon - r\sqrt{\Delta}}{-r\sqrt{\Delta}} = 1$$