

Subject:

Сурьелом

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

$$4 \quad \frac{r-1}{r-(-1)} = \frac{1}{r} \quad \frac{1}{r} a + \frac{r}{r} = g \quad (2)$$

$$6 \quad \frac{1}{r} a + \frac{r}{r} = \sqrt{a^2 - 1} = (a+r)^r = g(a^2 - 1)$$

$$8 \quad a^r + 1a + 1g = 9a^2 - 9 \Rightarrow a^r + 1 - 9a^2 + 1a + 1g = -$$

$$9 \quad 1 - 9a = 10 = 2 \quad 1 - 9a = -10 \rightarrow 9a = 11 = a = (r)$$

$$11 \quad f(n) = \sqrt{r^2 n - 1} \rightarrow f(2) = \sqrt{9} = 3$$

$$13 \quad \frac{a^r + m a + 1}{n + r} = \frac{(a^r + m a + 1) - (n + r)(r a + m)}{a^r + 9a + 9} \quad (3)$$

$$16 \quad a^r + m a + 1 - r a^r - (m+9)a - r$$

$$17 \quad -a^r - 9a - r$$

$$18 \quad \frac{-a^r - 9a - r}{a^r + 9a + 9}$$

$$21 \quad \frac{r^2 a + n}{r} = \frac{a^r + m a + 1}{a + r} =$$

$$23 \quad r + n = r + m \rightarrow m = n + 1 \quad \underline{r n + 1 = m + n}$$

$$25 \quad (r^2 a + n)(a + r) = r(a^r + m a + 1)$$

$$26 \quad r^2 a^2 + 9a^2 + n a + r^2 n = r a^r + m a + r \quad m + n = r n + 1 \quad (r) \checkmark$$

$$27 \quad a^r + (m - 9 - n)a + r - r n$$

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



$$f_{\log} \left( \frac{1}{\sqrt{r}} \right) = ? \quad (4)$$

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

$$f_{\log} = -n \rightarrow f_{\log}' = -1$$

$$g(m) = \frac{f(m) - n}{n} \quad f(m) = \left( \frac{-1 + \sin n}{1 + \sin n} \right)^n \quad (5)$$

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

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

$$\frac{n^r - rn + 1 - n^r - rn^r - n}{n^r + rn^r + n}$$

$$rn - r - rn^r - n - 1$$

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

$$y = -n^r - 1 \quad (6)$$

$$-rn = \pm 1 \rightarrow n = \pm 1/r$$

$$y = -(n^r + 1)$$

$\begin{matrix} -1/r \rightarrow -0/1 \\ 1/r \rightarrow -0/1 \end{matrix}$

فانها ليست بالمتساوية

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$$m \frac{d}{dt} = r a^x \frac{1}{r} (r a^r + r)$$

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

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

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

$$m \frac{d}{dt} = \frac{r}{a^r} = \frac{r}{-r a^r + a + 1}$$

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

$$\downarrow -r a^{\frac{r}{r}} + a^{\frac{r}{r}} + a^{1/r}$$

$$-r a^r + a^r + a^{1/r} \rightarrow -r a^r + a^r + 1$$

$$\rightarrow a = 1/r$$

$$f(a) = \frac{r a}{-r a^r + a + 1} = \frac{\frac{r}{r}}{-\frac{1}{r} + \frac{1}{r} + 1} = \frac{\sqrt{r}}{r}$$

$$f(a) = a^r \rightarrow f'(a) = r a^{r-1}$$

$$g(a)' = \left( \frac{-a}{(\sqrt{a^2-1})^r} \right) \times f'(g(a))$$

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

اجزاء

Arman