

Jijij

$y = a \cdot n + b \xrightarrow{n=1} y = a + b = 0 \Rightarrow y = a \cdot n - a$
 $y = p \cdot a - a = 0 \Rightarrow a = \frac{1}{p} \Rightarrow f'(r) = \frac{1}{p}$

$y = a \cdot n + b \quad a = \frac{p-1}{p-1} = \frac{1}{p} \Rightarrow y = \frac{1}{p} \cdot n - 1 \Rightarrow y = \frac{1}{p} \cdot n + \frac{1}{p}$
 $f'(n) = \frac{1}{p} = \frac{1}{p} \Rightarrow p \cdot a = \sqrt{p \cdot n - 1} \Rightarrow p \cdot a^p = p \cdot a \cdot n - 1$

$\frac{1}{p} \cdot n + \frac{1}{p} = \sqrt{p \cdot n - 1}$
 $\Rightarrow \frac{1}{p} \cdot n^p + \frac{1}{p} + \frac{1}{p} \cdot n = a \cdot n - \frac{1}{p}$
 $\Rightarrow \frac{1}{p} \cdot n^p + \left(\frac{1}{p} + \frac{1}{p}\right) \cdot n + \frac{1}{p} = 0$

$\Rightarrow p \cdot a^p - 2 \cdot a \cdot n + 1 = 0 \Rightarrow (p \cdot n - 1)^p = p \cdot a^p \cdot n - 1 + p \cdot a \cdot n$
 $\Rightarrow n = p, a = \frac{1}{p} \cdot a$
 $\Rightarrow 1 + \left(\frac{1}{p} - \frac{1}{p}\right) \cdot n^p + \frac{1}{p} = 1 + \frac{1}{p} \neq 0$
 $\Rightarrow (p \cdot a + 1)^p = p \cdot a^p + 1 + p \cdot a \Rightarrow n = -p, a = -\frac{1}{p} \cdot a$
 $\Rightarrow 1 + \left(\frac{1}{p} + \frac{1}{p}\right) \cdot n^p + \frac{1}{p} = \frac{1}{p} - \frac{1}{p} \neq 0$

$n=1 \rightarrow y = n + p \Rightarrow y = n + \frac{1}{p}$
 $a=1 \rightarrow y = p + n \Rightarrow y = p + \frac{1}{p}$

$f_j = n + \frac{1}{p} \Rightarrow y = \frac{n + \frac{1}{p}}{p}$
 $y' = \frac{(p+n)(n+p) - (n^2 + np + 1)}{(np)^p} \Rightarrow \frac{p(p+n) - (p+n)}{p} = \frac{1}{p}$

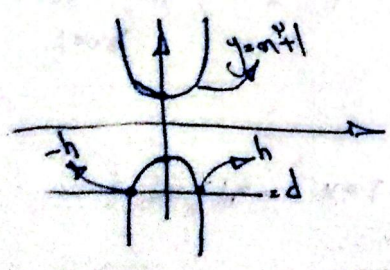
$\Rightarrow p = p + m \Rightarrow m = p \Rightarrow p = n + p \Rightarrow n = 1 \Rightarrow m + n = p + p = 2p$

$(p \cdot g - f)'(n) = p \cdot g'(n) - f'(n) = \frac{p \cdot \frac{1}{p} \cdot \frac{1}{p \sin n}}{p \sin n} - \frac{(p \sin n)(n + \sin^2 n + p \sin n)}{(p \sin n)(p + n \sin n)} = \frac{p^2 - p - \sin^2 n - p \sin n}{p \sin n} = \frac{p - \sin^2 n - p \sin n}{p \sin n}$
 $\Rightarrow \frac{-\sin n (\sin n + p)}{p \sin n} \Rightarrow -\sin'(n) = -\cos n = -\cos \frac{1}{p} = -\frac{1}{p}$

$f \circ g'(\sqrt{p}) = g'(\sqrt{p}) \cdot f'(g(\sqrt{p})) \Rightarrow g'(n) = \frac{0 - \ln p}{(p \cdot n^p)^p} = \frac{-\ln p}{p \cdot n^p}$

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

$f'(n) = g'(n) + g(n) \Rightarrow g'(n) = f'(n) \Rightarrow f'(n) = \frac{p \sin n - 1}{\sin n} \cdot \frac{\cos n}{(1 + \sin n)^p} - \frac{\cos n}{(1 + \sin n)^p} = -p \cdot \frac{1}{p} = -1$



$y = -n^2 - 1 \Rightarrow y' = -2n \Rightarrow -p \cdot h \cdot p \cdot h = -1 \Rightarrow p \cdot h^2 = 1 \Rightarrow h = \pm \frac{1}{p}$
 $\Rightarrow n = \frac{1}{p} \rightarrow y = \frac{1}{p^2} - 1 = -\frac{1}{p}$

$$f'(x) = 19x\sqrt{x} - \frac{x}{\sqrt{x}}(8x^p + 1)$$

$$f = ax$$

$$\Rightarrow a = 19x\sqrt{x} - 8x^p + 1$$

$$2\sqrt{x}(8x^p + 1) = 19x\sqrt{x} + 9\sqrt{x} = ax$$

$$= 19x^p - 8x^p + 1 = \frac{\sqrt{x}}{\sqrt{x}} \Rightarrow 19x^p + 1 = 8x^p + 1$$

$$\Rightarrow 19x^p + 1 = 8x^p + 1 \Rightarrow 11x^p + 1 = 8x^p + 1$$

$$\Rightarrow 19x^p - 8x^p = 0 \quad x = \pm \frac{1}{p} \quad x \neq -\frac{1}{p} \Rightarrow a = 19x^p - 8x^p + 1 = 11x^p + 1 = 11\left(\frac{1}{p}\right)^p + 1 = \frac{11}{p^p} + 1$$

$$f = ax$$

$$f'(x) = \frac{\frac{x}{p\sqrt{x}}(-19x^p + 9x + 1) - (-8x + 1)(\sqrt{x})}{(-19x^p + 9x + 1)} = a$$

$$\frac{f(x)}{f'(x)} \Rightarrow ax = \frac{\sqrt{x}}{-19x^p + 9x + 1} = \frac{\sqrt{x}}{(9x + 1)(-19x^p + 9x + 1)}$$

$$\Rightarrow a\sqrt{x} = \frac{x}{-p(x-1)(9x+\frac{1}{p})} \Rightarrow \frac{\sqrt{x}}{-p(x-1)(9x+\frac{1}{p})} = \frac{-x\sqrt{x} + \frac{x}{p} + \frac{x}{p\sqrt{x}} - (-8x\sqrt{x} + \sqrt{x})}{-19x^p + 9x + 1}$$

$$\Rightarrow \frac{-19x^p + 9x + 1}{p\sqrt{x}} - \frac{(-19x^p + 1)}{p\sqrt{x}} = \sqrt{x}$$

$$\Rightarrow 4x^p + 9x - 1 = 19x \Rightarrow 4x^p - 9x - 1 = 0 \Rightarrow 4\left(x - \frac{1}{4}\right)\left(9x + \frac{1}{4}\right) = 0$$

$$x = \frac{1}{4}$$

$$\Rightarrow f\left(\frac{1}{4}\right) = \frac{\sqrt{\frac{1}{4}}}{-\frac{1}{4} + \frac{1}{4} + 1} = \frac{\sqrt{\frac{1}{4}}}{1} = \frac{1}{2}$$