

$$y = \frac{f}{r}x + 1 \quad f'(r) = \frac{f}{r}$$

بسیار است  $y = \frac{1}{r}x + \frac{f}{r}$

$$\sqrt{qm-1} = \frac{1}{r}m + \frac{f}{r} \rightarrow m^2 + (1-q)m + r^2 = 0 \quad \Delta = 9$$

تعریف می شود  $a = \frac{f}{r}$

$$\sqrt{m-1} = a \quad a = r$$

$m = a$

$$y = \frac{m^2 + mm + 1}{m+r} \xrightarrow{m=1} f'(m) = \frac{m^2 + 2m + m - 1}{(m+r)^2} = \frac{2m+2}{1+r} = \frac{2}{r} \Rightarrow m=1 \rightarrow f(1) = 1$$

$$y = \frac{r+m}{r} \quad \frac{r+m}{r} = 1 \quad n=1 \quad m+n=r$$

$$(rg' - f') \left( \frac{a}{r}k \right) \quad f(m) = \frac{(r \sin m)^2 (r + \sin^2 m + r \sin m)}{(r \sin m)(r + \sin m)} \rightarrow f'(m) = \frac{\sin^2 m \cos m + r \sin m \cos m}{(r + \sin m)^2}$$

$$g'(m) = \frac{-r^2 \cos m}{(r + \sin m)^2} \quad (rg' - f') \left( \frac{a}{r}k \right) = \frac{-r^2 \cos m - \sin^2 m r \cos m - r \sin m \cos m}{(r + \sin m)^2} = \frac{-r^2 \cos m - r \cos m}{(r + \sin m)^2}$$

$$g'(\sqrt{r}) f'(g(\sqrt{r})) = (f \circ g)'(\sqrt{r}) \rightarrow f \circ g = \frac{-1}{\sqrt{r} \left( \frac{1}{r} \right)} = -r + (f \circ g) \left( \frac{1}{\sqrt{r}} \right) = -1$$

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

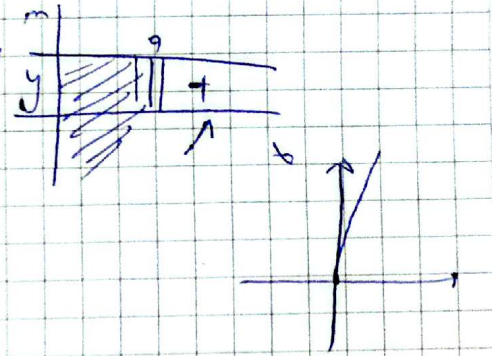
$$\lim_{m \rightarrow 0} g(m) = \frac{r \left( \frac{-1 + \sin m}{1 + \sin m} \right)^r (r \sin m (1 + m \sin m) - \cos m (-1 + \sin m))}{(1 + \sin m)^{r+1}} = r(-1)(1+1) = -r$$

$$m^r + 1 \xrightarrow{\text{derivative}} -m^r + 1 \quad f'(x) f'(-x) = -1$$

$$f'(x) = -r m^r \quad -r m^r \times r m^r = -1 \quad m^r = \frac{1}{r} \quad m = \pm \frac{1}{r} \rightarrow \text{مقیاس برعکس است}$$

$$d: y = -\frac{Q}{f} \quad |, f, Q \leftarrow \text{باید دلتا}$$

$$f(m) = r\sqrt{m} (r m^r + r) \quad f'(m) = r \left( \frac{1}{2\sqrt{m}} (r m^r + r) + \sqrt{m} (r m^{r-1}) \right)$$



$$f'(x) = \text{باید دلتا} \rightarrow \text{باید دلتا} + \infty$$

$$f(m) = \frac{\sqrt{m}}{-r m^r + m - 1} \quad f'(m) = \frac{+2m^r - m + 1}{(-r m^r + m - 1)^2} = -1$$

(...)

نقطه سرجی است

$y = 9$

$$\log(x) = \left( \frac{1}{\sqrt{m^r - 1}} \left[ \frac{1}{\sqrt{m^r - 1}} \right]^r \right) = \left( \frac{1}{\sqrt{m^r - 1}} \right)^{2r}$$

$$\lim_{y \rightarrow \infty} \log(x) = \left( \frac{1}{\sqrt{m^r - 1}} \right)^{2r} = \frac{1}{m^r}$$

$$\frac{1}{m^r} = \frac{1}{m^r}$$

$$\frac{1}{\sqrt{m^r - 1}} = \frac{1}{\sqrt{m^r - 1}}$$

$\frac{1}{\sqrt{m^r - 1}}$

$$(m^r + y^r - 1)^r - m^r y^r = 0$$

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