

بسم الله الرحمن الرحيم

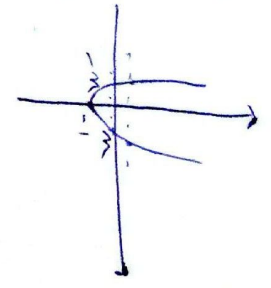
$$\lim_{m \rightarrow 0} \frac{f(m) - f(0)}{m - 0} = 0 \quad \text{و } b = 0$$

$$f'(m) = r \times r \times \cos^r(\cos x) \times (-\sin^r m) + r a m^{m-1}$$

$f'(0) = 0$

$$\lim_{m \rightarrow 0} \frac{f(m) - f(0)}{m - 0} = r \quad f''(0) = r \quad f''(m) = \dots \quad (-\sin^r m) \dots + r a$$

$$f'(0) = r = r a \rightarrow a = 1$$



$$f(m) = m^{-1} \quad f'(m) = r m$$

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

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

$$\frac{r}{m} + \frac{r}{m} = \frac{2r}{m}$$

$$r m x - r m = -1 \quad -r m^2 = -1$$

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

$$\lim_{m \rightarrow 0} \frac{f(m) - f(0)}{m - 0} = \frac{r - f(0)}{0 - 0}$$

$$y = r m + a y' = r$$

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

$$1-a = r + r a \quad a = -\frac{1}{r}$$

$$\frac{m+1}{m+1} = \frac{m=1}{m+1} = 1$$

$$r m + b = 1 \quad m=1 \quad b = -1$$

$$a - b = -\frac{1}{r} + 1 = \frac{r}{r}$$

Q

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

-4

	-1	r
+	-	+
↗	↘	↗

$$\frac{\partial y}{\partial m} = \frac{rV}{-r} = -9$$

$$r m^{r-1} - r m - 1 = -9 \quad \rightarrow \quad r m^{r-1} - r m + r = 0$$



-V

$$y = m^r + a m^r + b m - 1$$

$$y' = r m^{r-1} + r a m^{r-1} + b$$

$$y' = r m + r a m \rightarrow r m = -r a \rightarrow m = -\frac{a}{r} = -1 \quad a = r$$

$$y = m^r + a m^r + b m - 1 \xrightarrow[m = -1]{y = f}$$

$$-f = (-1)^r + r(-1)^r + b(-1) - 1 \rightarrow -1 + r - b - 1 = -f$$

$$r = b = r = 2$$