As limiting value depends on O so limit DNE

$$(n_1y) - 1(0,0) - ny = -1$$
 $(n_1y) - 1(0,0) - n_3 = -1$

$$(n_1) - (0,0) - (0,0) = 1$$

$$\lim_{N \to \infty} \frac{n_1}{n_1} = 1$$

$$\lim_{N \to \infty} \frac{n_2}{n_1} = 1$$

I we approach (0,0) via different path we get different value of limit hence limit DNE.

couplingus Fluit exist 97.ELJ 79.5 E

$$\frac{\ln \log n}{\ln n} = \lim_{n \to \infty} \frac{\ln \log n}{\ln n} = \lim_{n \to \infty} \frac{n^2}{\ln n} = \frac{n}{\ln n}$$

$$\lim_{n \to \infty} \frac{n}{\ln n} = -1 \qquad \lim_{n \to \infty} \frac{n}{\ln n} = 1$$

$$\lim_{n \to \infty} \frac{n}{\ln n} = -1 \qquad \lim_{n \to \infty} \frac{n}{\ln n} = 1$$

L'mi't doesn't exist > for down't exist.

Similarly
Bylo,01- lim y

By Fy ANE.

Ny

$$\frac{2}{3} \cdot \left\{ |w^{3}| = \left\{ \frac{0}{w^{5} + 2A_{5}}, (w^{3}) = (0^{10}) \right\} \right\}$$

As limiting value depends on chosen path so limit doesn't exist.

Bn = Dim B(n+An, y) - B(n,y)

Balo,01: Sim B [An,0]

Similarly = limbloid

= 0 exists

4. Slny1 - / 2 , (Mix) + (0,0) Bud = 7 pl = 0100 pl monial - Pa(nia) Byn = Sim Bul 0, 121-62000 Bry 10,01= 0100 By (Dr. 0) -By (0,0) = Min Balono) - 82(0,0) dly lin blut Br= Oin Blumany)-Bluis) Bn 10,01 = Oim & Anio1 - Blo,0) = Dim 0 = 0 Bulo, M1 = lim Blandy1-Blo, Ay | Dim Bluigh-Bloigh = lim v3y -0= Aglorol = 0 1 Aglamo) = 0 of the By = Dim fln+4+021-Blnis) Bylorol- Pim B(0,0+Ay1-Bloro) = Sim Blory = 0 Bylanion = lim f(An, Ay1 - B(Anio) = lim f(N, y1 - B(Nio)) = lim n3y - 0 = Bny(0,0) = lim · n-0 Byn10,0)= Jim 0-0 = 0

Since Instyn

So discontinuous

2-Bluid= 2+3 B(m, 2/1- tom 3(n3+y3) degree=2

N 35 + 9 3 = 55

My Agrano + A grano= 3 tous

N 26czo ga + A 26czo go = Josephono = 21 yr $\sqrt{\frac{9}{40}} + \sqrt{\frac{23}{40}} = 34 yr \cos \alpha$

(ii) $N_2 \frac{\partial N_2}{\partial s} + \lambda_8 \frac{\partial \lambda_2}{\partial s} + gud \frac{\partial \lambda_3}{\partial s} = (O\cos 3n - 1) aingn$

The as in 1) hard right + Agn = 81050

diff with $Nx(\frac{9n}{9n}+N\frac{9ns}{9s}+3\frac{9ndh}{9s}+3\frac{9ndh}{9s}+3\frac{9n}{9s}+3\frac{9h}{9s}=3\cos_{3n}\frac{9h}{9n})$ ($N\frac{9ng}{9s}+3\frac{9h}{9s}+3\frac{9h}{9s}=3\cos_{3n}\frac{9h}{9n}$) a Add 0+0

Ngn + N5 950 + NA 900 + NAgo + A5 90 + A90 = 8 cosso(Ngn + And)

= 8000 50 sluso - Ngo - Ago

- (200520-1) Singu

M-1 No og + sha logn

$$= \frac{dp}{dv}(-1) + \frac{dq}{dv} + 0 = \frac{dq}{dv} - \frac{dp}{dv} - 0$$

$$\frac{30}{32} = \frac{30}{3\pi} - \frac{30}{39} - 3$$

$$\frac{\delta_{0}}{\delta_{0}} = -\delta n$$

11- Votos

$$\begin{cases} 0 \to (0.01) \to (0.01) \\ 0 \to (0.01) \to (0.01) \end{cases}$$

$$\frac{94}{91} = \frac{90}{91} = \frac{90}{90} = \frac{90}{40} = \frac{90$$

$$\frac{90}{90} = 300 \frac{90}{90} + 52 \frac{90}{90} = \frac{90}{90}$$

2~2= 4n+24

Ne= 34+3

determent a-1(1,1)-10,0)