2

3- Tam Differensiyel Destremler

M(x,y)dx + N(x,y)dy=0 durumunda My = Nx ise Tom Sifferonsiyel Denthlem denir.

Hoterbatrons

$$Ex: (x^2-y)dx + (y^2-x)dy = 0$$
 qae.

$$M_{y}=-1$$

$$N_{x}=-1$$

$$= \Rightarrow + \text{ am. } \text{ dif.}$$

$$x^{2}dx - ydx + y^{2}dy - xdy = 0$$

$$\begin{bmatrix} x^3 - x \cdot y + y^3 = C \\ 3 \end{bmatrix} \Rightarrow Genel$$