4/13/22 - Parametric Equations - Yigal Kamel
Looking back: Throughout the calculus sequence we have studual different types of functions (i.e. with different nuts \& outputs) .


Now: Paranetre equations are our way of studying a new kind of function.


There are a number of ways to think about,

Ex: $\cdot(x(t), y(t))=($ cost, $\sin t)$

- the position of a particle traveling in a place over time.
- any function $f(x)$ of the "cal $I$ " type, via $(x(t), y(t))=(t, f(t))$
- any pair of functions of the "calk $I$ " type: $(x(t), y(t))=(f(t), g(t))$.
or describe, such a function. Two good ones to keep in mud are: (1) as a pair of ordinary (calk I) furetiors,
(2) as a point/vector in the plane that varese in "time" $t$.

