4/13/22 - PARAMETRIC EQUATIONS - YIGAL KAMEL
Looking back: Throughout the calculus sequence we have studied different types of functions (i.e. with different inputs & outputs).
$\begin{array}{ccc} \underbrace{\text{Calculus I}}_{\text{calculus I}}: & f: \mathbb{R} \longrightarrow \mathbb{R} & \underbrace{\text{Ex:}}_{\text{calculus I}} \cdot f(x) = \chi^{2} \\ & & &$
Sequences: $a: \mathbb{N} \longrightarrow \mathbb{R}$ $a_{n} = \frac{1}{n}$ $g_{n} \longrightarrow a_{n}$ $(g_{n} \otimes g_{n})$ $(g_{n} \otimes g_{n})$ (g
$\begin{array}{c} \underline{\text{Sequences of}}\\ \underline{\text{Functions}}:\\ \hline \\ \underline{\text{Functions}}:\\$
Now: Parametre equations are our way of studying a new kind of function.
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There are a number of ways to think about, $(x(e), y(e)) = (f(e), g(e))$. or describe, such a function. Two good ones to keep in mind are: (1) as a pair of ordinary (Calc I) functions, (2) as a point/vector in the plane that varies in "time" t.