Theorem: If f is defined on an open interval containing x=a except maybe x=a, then	
[2] If $\{x_n\}$ is a sequence where $\lim_{n\to\infty} x_n = \alpha$ and $x_n = \alpha$ for all n , then	
(2) If $\{x_n\}$ is a sequence where $\lim_{n\to\infty} x_n = \alpha$ and $x_n = \alpha$ for all n , then	
$\lim_{n \to \infty} f(x_n) = L$	
Theorem: Function limits are unique	
(>1 (init DNE)	
We also get nice ways to prove that the limit does not exist:	
1) Find a sequence >x, > where x, >a x, +a and	
1) Find a sequence {xn} where xn+a, xn+a and lim F(xn) DNE	
\(\(\lambda\)\(\lambda\)	
2) FMZ 2 sequences	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Clearly $x_n \rightarrow 0$, $y_n \rightarrow 0$, $x_n \neq 0$ and $y_n = 0$ For all n	
$\frac{1}{1}$ $\frac{1}$	
1. 14.1.	
11M 1M = -1	
$ \begin{array}{c c} & \chi_{n} \\ & \chi_{n$	
[+-1	