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1	/,	P

	21.6
(1);	The mathe matical property statement, concerning a scenence on,
	lim an = L isthe statemen defined as the following: Given an E70, the himit exists if there is a positive N >n such that if n>N, then an - L < E.
(2):	To show that the limit
(2)	liman = lim (-1)n+1 ! 0, n+00 n we must show how to pick an N such that, given E70 if n>N, then an-L <e< th=""></e<>
	We see that we need $\frac{ (-1)^{n+1} }{n} - 0 < C \Rightarrow \frac{ (-1)^{n+1} }{n} < C$ The n Jul to symmethy about the x-axis and the absolute value, This be comes
	$\frac{1}{n}$ ϵ
	for this to be satisfied. Thus, the limit exists.
	for this to be satisfied. Thus, the limit exists.