' EX	List first 5 terms of the sequence
	$a_1 = a_2$, $a_2 = 1$, $a_{n+1} = a_n - a_{n+1}$
SIL	$q_1 = 2$
	$a_2 = 1$
	$a_3 = a_7 - a_1 = 1 - 2 = -1$
	$a_4 = a_3 - a_2 = -1 - 1 = -2$
	$a_5 = a_4 - a_8 = -2 - (-1) = -1$
	Va)

EX	Find lim n+1
80/2	Graph: is I the limiting value of not?
	1
	W X X Y X Y X Y X Y X Y X Y X Y X Y X Y
	$\lim_{n\to\infty} \frac{n}{n+1} = \lim_{n\to\infty} \frac{1}{1+\sqrt{n}} = \lim_{n\to\infty} \frac{1}{1+\lim_{n\to\infty} \frac{1}{n}} = \frac{1}{1+\lim_{n\to\infty} $
	The No.
EX	Find line n
S.12	Here it is useful to think up and as s(n)
	where $f(x) = \frac{6nx}{x}$
	and x is real (ie not an integer). Then, by l'Hôpital:
	$\lim_{x \to \infty} \frac{\ln x}{x} = \lim_{x \to \infty} \frac{1}{x} = 0.$
Since of	(x) >0, the sequence f(n) = lnn "converges" to
	Zero.
	No of Company and a supplied to

(X) EX Find lim (lnn) lin (los) # lim

Thus: Since the limit of Jain is not finite, we say it "diverges". A Degrance doesn't need to approach a to be divergent: EX What is lim (1)? Solo Seguence (S -1 1 ,-1 ,-1 ,-1 ,-1 ,-2 ,n=3)

any single 1. (n-2) ... 3, 2, 1 Thus: W EX Find lim (-1) -lan & an & lan Thus, of land go, then -land to, and so does an by squeeze theorem. nour case: Thus EIN The De What is the behavior of raon -ow?: 2" (=2)

lin 1+97 ma V4) $\frac{n^2}{\sqrt{1344n}} = \frac{n^2/n^{3/2}}{\sqrt{1+4/n^2}} = \frac{\sqrt{n}}{\sqrt{1+4/n^2}}$ 1+4/121 make this "1". Va This egurialent ing. (1-n) (n+3) >-(2+n)