8)	len n=k+1 => (k+1, k+2) n IN = 0
	There exists $\lambda \in (k+1, k+2) \cap \mathbb{N}$
	⇒ K+1 < A < K+2 S+ A € N
	⇒ K < 1-1 < K+1
	It is a natural number, and K is
	also a natural number \Rightarrow $(\lambda - 1)$ is a
	hatural number
	(by contradication)
	1-1 G(K, K+1) n N
	$\Rightarrow (k+1, k+2) \cap N = \emptyset$
	. 🗵

10	Letter no, such that it still belongs to [n,n+1)
	Thus, K-n 21
	⇒ -12 K-n21
	⇒ n-1 ≥ k ≥ n+1
	The same of the sa
7	Because the only integers within h-1 and n+1
	are n-1, n, and n+1
	34 14 14 1 14 3 4 4 4 4 4 1 1 1 1 1 1 1
	$(n-1) \notin (n+1) \notin [n,n+1)$
	n ∈[n,n+1)
	Since the only integer in [n,n+1) is n, theres only one integer in [n,n+1]
1 2 9 6	

12)	We know that a is dense in IR	
	There exists a rational number & such that	
	12 × < 1√2 Thus, a < K√2 < b	
	Le+ € = K√2.	
	There exists irrational number i between a & b thus implying irrational numbers are dense in IR	S
	Thus implying the	

14) (1+r)" = 1+r*n
Le+ n=1
$(1+r)^{1} \ge 1+r*1$
1+r ≥ 1+r
Assume (1+r) m ≥ 1+r*m for some m >1
Consider $(1+r)^{m+1} \ge 1+r*(m+1)$
$(+r) \times (+r) \ge (+r ^{+}m) \times (+r)$
=> +r+r*m+r*(m+1) = +r*m > 0
(,0 , ,
the every n, there exists (+r) ≥ 1+r*n
For every n, there exists (1+r) ⁿ ≥ 1+r*n