76)	2
20)	Suppose we let k=1, and m*(ADE) = m*(ADE), this holdstrue
	Let us assume that for some n, m+ An U Ex = \(\frac{n}{k=1}\) n*(AnEx)
	se we may prove for 1+1 disjoint measurable sets, since
3	Egyl is measurable
	$m^*(A \cap U E_k) = m^*(A \cap U E_k) \cap E_{n+1} + m^*(A_n(U E_k) n E_{n+1})$ $= m^*(A \cap E_{n+1}) + m^*(A \cap U E_k) n E_{n+1}$
	$= m^*(A \cap E_{n+1}) + m^*(A \cap (G E_{\kappa}))$
	= m (A (F-+1)+2 m*/40=)
	$= \frac{2^{+1}}{2} m^* (A \cap E_k)$
	Which remains true for n+1. With n > 00 this will
	result in the Relacing:
	m* (AO Ex) = 2 m* (AO Ex).
	Kaj Kj Z m (n L K)
20	

Suppose SE & 3 00 1/8 a dissoint collection of measurable sets Let us define An = & Ex and that [Ax 300 is ascending and Example 1 1 1 1 1 1 1 1 1 1
kaluh kaluh
The continuity of measure implies that $m \left(\bigcup_{k=1}^{\infty} A_k \right) = m \left(\bigcup_{k=1}^{\infty} E_k \right) = \lim_{n \to \infty} m(A_n)$
By fingle additivity, $\lim_{n\to\infty} m(A_n) = \lim_{n\to\infty} \frac{n}{n} = \lim_{n\to\infty}$
Thus, m (UEk) = Z m (Ek)
a little & si le le time la de man an it i le le time le

	Mus, m (Utk) = Z m(Ck)
96	The contract of the contract o
39)	Let F; be the result of the ith iteration of removing all a/3;
	wide intervals We can let Fo = [0,1] F = [0,1/2-47 UT = +0
	The will rouly in E= O E
	Every to will have a 2' disjoint closed intervals of equal length
	this means each closed interval is less than it wide.
	Suppose (a,b) = F with a < b. This means (a,b) & f. for all ;
	(b-a) > = for some value of k. There is no interval of
	that length and thus there can be no nonempty open intervals
	in F. This in turn maxes the complement of F dence
	Thus, [0,1] F dense in [0,1] &
- 6	