A company of the second		$\langle \lambda \rangle$
3.	Let ?fk? be a sequence of nonnegative measurable	
10	functions defined on E. If fk -> f and fk < f	and I
	a.e. on E, show that $\int_{E} f_{\kappa} \rightarrow \int_{E} f$ .	
	Proof: Let ?fx} be a sequence of nonnegative.	
	measurable functions defined on E. Suppose fx >f	September 1
•	and $f_K \leq f$ a.e. on E. Note that f is measurable	Annaum,
	by Theorem 4.12. Since fix is nonnegative the d, by	
	Fatou's Lemma (Theorem 5.17), If f = liming If fk.	grounding of a
		Printed playments
	Now since fx &f a.e. on E, by Theorem 5.10	generalisa namika
	Sefr & Sef Yken. Taking the limsup, we have	Married States
	that limsup SE fK = SE f.	Browner, and Company of the Company
	Then we have that:	Sandriff come
	SE f < liming SE fx < limsup SE fx < SEf.	grandada.
	Hence Sefk -> Sef.	
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The second secon	(1 k 0 (2)), show that x + (x) \in L(0,1) for k = 1, 2,	
	and $\int_0^1 x^k f(x) dx \rightarrow 0$ .	en ale
10/		an ar ar a
,,,	Proof: Suppose fel(0,1). Notice that xx is continuous	
	and is thus mercurally to	
	and is thus measurable on (0,1) by Theorem 4.3.	
	Also,  x   \( \) in (0,1). Then by Theorem 5.30	
	X L(V) AK EN.	
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	X T X	
	$ x'' + (x)  \leq  +(x) $ in (0.1) and by Theorem 5.31	
	$\frac{1}{1}$	
	Notice that S'o=0 by Theorem 5.11. Hence	
	Jo xxf(x) dx →0.	
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