

LET US RECALL : P WENE NUT UPPER LIMITED, PUES THERE EXIST A SIMPLE FUNCT Y S.T. 439 ? NO Lower = sup (4) IF NOT LOWER LIMITED, THERE WERE NO Y SIMPLE SUEN THAT Y & THM ... P: EEM ->IR LIMITED + µ(E) < + ... WE HAVE : F yound your E IF AND ONLY IF 15 A MERSURABLE FUNCTION !! PRUP , d: ESIR" -IR CIMITED, M(E) <+00 f, y MEASURADIE OS CERTIQUE INTEGRABIE i) ya, belia we have $\int (\alpha f + b g) = \alpha \int f + b \int g$ $ii) MUNOTUNICITY IF <math>f \leq g$ A.E.

THEN $\int_{E} f \leq g$ iii) SPECIAL CASE OF ii) IS





