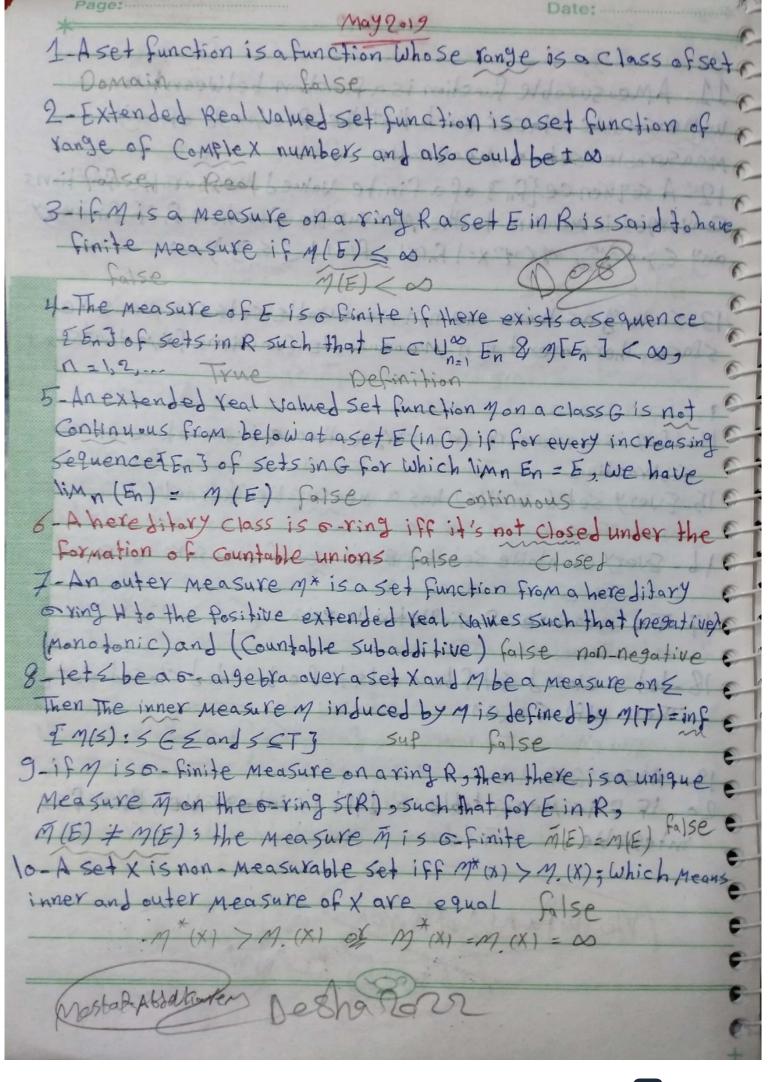
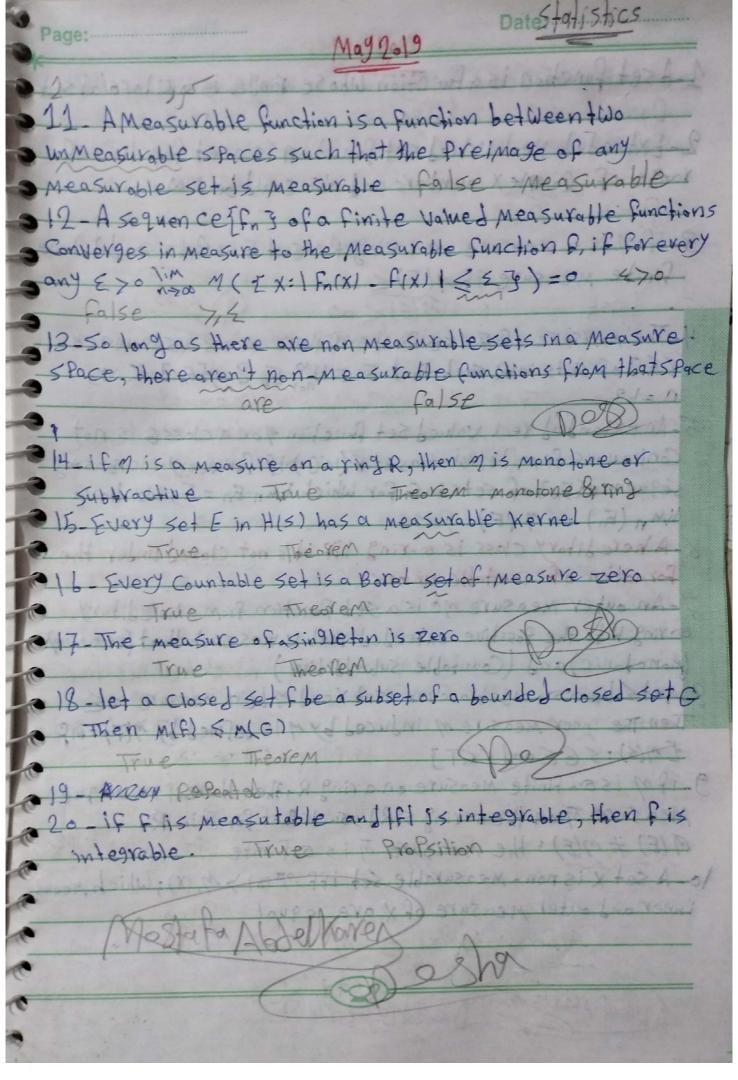


Page: Date:
1-The lebesque integral is a linear, Positive absolute
· operator on the linear spacel. True Definition
2-iffis monotone an [ab] then fis integrable an [ab]
True Theorem Corollary
3-A4 Continuous & all integrable functions are measurable
True Theorem ?
4- 1,5 Ardinis loss and 209 de 201452
5-If s is a measurable set and M(s) = o if and only if s
is null false M(s) = o iff 5 is a null set
6-fatou's Lemma States that let for be a sequence of the measurable functions an E-if for >f in Measure on E, then
SEF < 1:M inf SEFN TYNE THEOREM
60808
7-15
9. By means of the monotone convergence theorem we can evaluate
The integrals such as ( e-IX) dx = lim ( Fn = 2 = 5 x'2 dx
True 8 Example in book Page 99 con consider
Neasure and O(x) = IAA (-0, x]1. Then p is continuous at
each XER True of chick in as
9 for competite set on the real line is nothing.
of the broad was a self gradet value based as part and
a shafabbel hars
Moor Leghe
e de la constant de l





Datetalistics 2-if (x,A,M) is a measure space and 1 & P < as then L (x) is a Banach space True Theorem 4-if a +ve function has Lebesgue integral equal then the function is zero a.e. W True, Theorem 5-The function f(x) = 1 has supremum = max= false Max = Suf=1, min = infl lo-The function f: R" > R is Measurable if the fruncated function Mid f - y, f, g & is snlegrable for every Positive Integarable function gin L2 (RK) True Definition Pylo 13-The smallest linear space containing Line is denoted by 17 which is the set of all function of the from F=9-h where q 0 h & Linc and sol' is called the stace of lebestue 0 integrable functions True Definition 14-15-E 6- The union and intersection of a Countable number of measurable sets are Measurable sets. True Theorem E € 18- Any ring is a seni-ring True Theorem E 19-The lebesque measure of 5 Mcs) = wifx is not 0 integrable True Definition Measure 79125 20- The rational numbers are countable set Tyne Theorem

