3. let f, f, f2 EMFT(E) and kGBMFO(E) be such that osksf a.e. on E. Let $k_i = k \wedge f_i$ and $k_2 := k - k_1 = 0 \vee (k - f_1)$ Show that Oski sfi and k = kitkz a.e. on E. Hence show that $H = H_1 + H_2$ where $H_1 = \{ h \in BMF_0(E) : 0 \le h \le f_1 + f_2 \text{ a.e on } E \}$ Omd $H_{i} = \left\{ h_{i} \in \beta M F_{o}(E) : 0 \leq h_{i} \leq f_{i} \leq ... \in ... E \right\}$ (i = 1, 2).Show finally that
$$\begin{split} & \int (f_1 + f_2) = \int f_1 + \int f_2 \, \downarrow f_1 \, f_2 \, \epsilon M \tilde{f}(E) \\ & E & E \\ \end{split}$$

4. Let
$$f \in MF^{\dagger}(E) \downarrow A \subseteq B \subseteq E$$
, with
 $A, B \in OM$. Show that $\int_{A} f \leq \int_{B} f \cdot Let$
 $\Delta_{Y_{m}} := \{x \in E : f(x) \neq 0\}$
and
 $\Delta := \{x \in E : f(x) \neq 0\}$
Show that if $f \in MF^{\dagger}(E)$ and $\int_{E} f = 0$
 $Men \quad m(\Delta) = 0$ (Hint:
 $\int_{Y_{m}} (f_{m}) \leq \int_{F} f \leq \int_{F} f = 0$
 $\Delta_{Y_{m}} \quad \Delta_{Y_{m}} E$
and $\Delta = \bigcup_{n=1}^{\infty} \Delta_{Y_{n}} \quad Similarly \quad if f \in MF^{\dagger}(E) d$
 $f < +\alpha i$ then $m(E_{\infty}) = 0$ where
 $E = \{x \in E : f(x) = +\alpha\}$ (Hint: $\forall n$
 $n \cdot m(E_{\infty}) = \int_{E_{\infty}} n \leq \int_{F} \leq \int_{F} f \in IR$)
 $E = \int_{E_{\infty}} \sum_{E_{\infty}} E = E$