1051-54-47 **Leobardo Fernandez*** (leobardof@ciencias.unam.mx), Instituto de Matematicas, UNAM., Circuito exterior, Ciudad Universitaria, Mexico D.F. CP 04510. Mexico., 04510 Mexico City, Mexico. *The set functions $\mathcal{T}$ and $\mathcal{K}$ on irreducible continua.* Preliminary report.

Given a continuum X, the set $C(X)$ is the set of all subcontinua of X. The *set function* $\mathcal{T}$ is defined as follows: for each $A \subseteq X$, $\mathcal{T}(A) = \{x \in X \mid \text{ if } W \in C(X) \text{ and } x \in Int(W), \text{ then } W \cap A \neq \emptyset\}$. Also, the *set function* $\mathcal{K}$ is defined as follows: for each $A \subseteq X$, $\mathcal{K}(A) = \bigcap\{W \in C(X) \mid A \subseteq Int(W)\}$. A continuum X is *irreducible* if there exist two points of X such that no proper subcontinuum of X contains both points. Some properties of the set functions $\mathcal{T}$ and $\mathcal{K}$ on irreducible continua are going to be presented. (Received August 04, 2009)