RELATIVE VALUE

The assignment of absolute values is practically difficult. How do we measure the absolute and overall value of a poem or of a rose? It is easier to measure any objects of the same Kind. value differences--which is what we do, e.g., when grading students. Therefore we shall elucidate the notion of the value difference  $d_R(a,b)$  between objects a and b in the respect R. More precisely, we shall assume that such differences, for a fixed R, form a linear continuum:

POSTULATE Let K be a class of objects and R a respect (property) in which the Ks are evaluated. Further, let  $d_R: K \times K \rightarrow R$  be a real valued function. Then, for every given K and R, and any three objects a , b,c of kind K,

(i) d(a,a) = 0(ii) d(a,b) + d(b,c) = d(a,c). (ii) d(a,b) = d(b,a)**R** 

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