Exercices - Hedian spaces, PART II - Indira CHATTERS)

EXERCISE 1 In any mehic space (X,d), show that $\forall x,y,z,w\in X$, if $y\in [x_1z]$ and x ∈ [w, 2], then x ∈ [w, y]. Exercise 2 let (X,d) be a median space. For x,y,z, w ∈ X, if y ∈ [x, z], then $[x_i\omega] \wedge [z_i\omega] \subseteq [y_i\omega]$ Exercise 3 let (X, W, H) be a meanved wall space. Show that the collection of disjoint unions L/W(FilGi) for he M and Fi, G; finite nonempty subsets of X, is a ring. EXERCISE 4 let (X, W, H,) and (X, W, Hz) be two meaned wall spaces. Show that the product X1 x X2 has a natural shuchne of meaned wall space and that the wall-metric is the sum of the two wall-metrics an X1 and X2. EXERCISE 5 🔮 Describe the median space associated to IR2 with the wall space given by all the walls parallel to n given non-parallel walls. Do the cases u=1,2,3.