Question The set of all pairs of Real number (χ, y) with the operations. $(\chi, y) + (\chi, y') = (\chi + \chi, y + y')$ K(X,Y) = (x, Ky)Solution & -> Axioms oT K(U+V) = KU+KV U = (x,y), V= (x,y') K(4+V) = K((x, y) &(x', y')) = K((x+x), (y+y))= ((x+x), K(y+y)) = ((x, Ky)+(x, Ky)) $KU + KV = K(\chi, \chi) \oplus K(\chi, \chi')$ (Not Hold) -> Hxioms 08 (K+C)U = KU + CU(K+C)U = (K+C).(M, y) = (M, (K+0)y) - (x, Ky + cy) = K(n,y) + c(n,y) Ku + cu = (n, Ky + N, Cy) = (27 , KY + CY) L. HS \$ R-HS