ORTHONORMAL BASES; GRAM - SCHMIDT PROCESS OR-DECOMPOSITIONS-ORTHOGONAL AND ORTHONORMAL BASES 8-Defination : It set of vectors in an inner product space is called orthogonal set is all pairs of distinct vectors in the set are orthogonal. An orthogonal pet in which each vector has norm I is called orthonormal. U1= (011,0), U2= (1,011) 1 U3= (1,0,-1) J= (41, 42, 43) (41,42) = (42,43) = (41,45)=0 1 V has norm 1 since 1 Vormallixing s The process of multiplying a nonzeroo vector v by the reciprocal of its length to obtain a vector of norm I is called normaliting.