Norms: V +> 11V11 generalins the absolute value 11511=0 <=> V=0 .) 101/30 ·) ||va|| = ||v|| . |a| ·) ||v+W|| = ||v|| + ||w||  $\|V\|_{1} = \|V\|_{1} = \|V\|_{1} + \|V\|_{2} + - + \|V\|_{1}$  $\|\nabla\|_{\infty} = \max_{i=1..N} |T_i|$  $\|\nabla\|_{2} = \|\nabla\|^{2} + \|\nabla\|^{2} + \|\nabla\|^{2} = \|\nabla\|\nabla\|^{2} = \|\nabla\|\nabla\|^{2} = \|\nabla\|\nabla\|^{2}$ Trivial Sot useful: V = W-X (wile N= 1/11) Def: a metrix D is called sorthogonal if it is spuece • U U = I o VVT = I (equivalent proporties)













