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CHO PAG ENG. CEO CEMPOZ = EMG CEO EMG ENG CEO EA EMFERCE CO ED PEMPERO ED PAREZO ED PA
If plq, then p+q= Ph+L.
falte *
CIII) PAPL=PL (=> PLPL=PL (=> PLCE)=1 USER (=> HCL Lb.c. PL is id on C only).
We write esq if eq = p.
Cioò eq erejection => eq=ceqo*=qe and ceqo2=eq Cubich follows from eq=qeo. So, eq erej. => eq=qe. In this cose,
PHOLS = PLPHE 6 K, C => PHOLLERAL. In fact, PHOL has range had, as EGHAL => PHOLE= E. Also, Phol is a proj.,
SO PERCEPENT. (=) PERCEPENTE (=) PERCEC-PENT)=0 (=) PERCENTE (=) ELLOCENTO (=) KOCHNIDILLOCENTO.
TO THIS THIS THE
\mathcal{C}
LOHNC=CACKALDI Cnote H=k++1, so Hok=k+) KOCKALD KAC
Cochnid
· Partial isometry. UEBCHO is a p.i. coartial isometrys if ulcherust is an isometry. So, H=kOL, h=keru, L=h+ wi ulk=0, ull isometry.
Example: H=C2, UC3)=(2). U is multiplication by matrix (00)=erz.
trero= {C3):y66}, trero1 = {C5):x66}. u on trero1 is sometric: (5) ~ C2).
let's discover more properties of a p.i. u.
Ly cyt
17 -> 1016 h'= (U') = Exect: (0) - h'
⊕
⊕ ⊕ ⊕ ⊕ (; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
<u> </u>
Why is u# (H)=0? Let next, so a tul 4(6H. < U*1, 57 = < n, u()=0, so u*1, 1 = 0.
Why is U*CC'DCL? Cet USEC' (SELD. WTS: U*CUSDEC. We show U*CUSDILC+=+, s.e. <u*cusd. 20="0" hacks<="" td=""></u*cusd.>

@> <u1,un)=0 Ctrue G.c. Un=0).

Consequence, 0************************************	In fect, utolezidle Exercise
	Consequence: U*00*=0* ((EH=>0)*16(, so U*00)*(=0*1).