Example: are athogonal lastin quaras (1, 1) (2,3), (3,11), ... Sies us all the printle print (017, no 1 (012, nou) (013, nou)? We are also see host each of the I'm he left are paid with a different # on the right The manufallense "Note" The question for for first above is asking about washoodly orthogonal. Us of order 6! A sof of later Squares is newtoodly arthogonal if early

perior of LSe in the soft is orthogonal

(In the doff before, 2 & LSe are arthogonal; ff

Gry, xoy, xoy, xo'y) (xy) E7172 are the row of a Othery) So, were senselly a set of k mutually orthogonal lookin squires Chols) is coquiralent to an OACn K121 (Rom the Other kge), use out (1,2, i) to get & Holes)

from k Ha	s anstruct type O.t.(n. E+2) with rus:
(x, y,	xoy, xo'y, xo"y,) (xy) c Tr32
3331873	is it is a second of the second of the second
Goude Con	trued and the second
Sive up	con cenetral an OACO, 11 ue con Rid 3 Hors
of order	20.
Centhy:	Congress of the contract of th
	odd or NEO Conod 4), then down exist cothogonal
Calin Squ	cost of adam to the same of th
Prosts	
	unto n= 9,99, whose office que que of
Pour Parer	que Er ouch i & terore exist an attire plane
	Quell) Since each q > 3.
By the co	oderal andration I OACN, 4). which is equivalent
42 0 Day	ordered anstruction, FOACN, a). untoh is equivalent
	mul coller in
Turns out	that as now, the maximum & of ractingues
The state of the s	00 -> 00 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Prof: Usas	Wiken's Moren by 333
mile.	making we make the deal of the day
Artific (	With the state of
	Course the contract of the con

Existence of Docions! Defor let v be a positive integer, KETzz. A liver spece (U, B) is could a property (a pointier bolamed design). if IVI=V and layer Excuple! of Cuit, 1)-BIBD is a Confidential PBD CV, EKE) Example Starting from as the granted thesian an Olanie, we get a domenoral design in which the blacks have size and 'groups' how size in iding 2 points of a transversell design are in a anim group and a starmen bluck, but not both. Contracting groups and blocks, up got a PBD (at \$ 6,02) Wecessen Conditions) Proposition: If PBD CU, W exists, then V-1=0 Conod of and U(U-1) =0 Comod m) were legalk-11 KEKE and megalikacill KEKE Obje! If K is a side claiment, then we just set the grewar and think for a RIRD! i.e. V-150 (and the and XU-1)=0 Could K(K-1))

Proof'	
This telle	as form'.
U-1=	5-(1x1-1) for seev
`	CON TOTAL TO
<u> </u>	J. W. CIRI-D
	1
and Zolla	(-1) is divisible by l. since by datin, l
3000	100 CB 10 CB
12 or 3cg	of the of this form, and because with Zpar (101-1)
In I Day	= Eve Tzzla PBDCU, K) exists?
	= 2 VR 122 ( a +80 (U, K) exists? VC 7/22 ( U-1 = 0 (mod l) and V(U-1)=0 (mod m)?
Lim	: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Del'a' As	at k is could PBD-closed if B(K)=k.
	which we had
Example:	
	PBD-closed (B(B(K)) = B(K))
Proof!	(what he know - 559 - 2141
	all KCK, a DBDCK, b) exists. (Trivial anotherstring
	to under out the grant inside it).
	(B(K)) \$ > B(K)
Sabae	up have Ut B(BCK). There exists a PBD(U, B(K)),
, still (	N, & B). Hereaux for cook black se BB. there
	a PBD (lal, E) Since lale & B(E), Say (a, Ca)
	= UCX. Chook that (V, E) is a FBXV, KI
	<b>O</b>

the state of the s	
· Kermis FDB-dosest:	
Polas from the necessary auditions	17 4
CIP a PBO(v, tem) exist = vetern)	
Geraine: War Amough defeits.	
detus. were through doteils.	
	· (1 - 1) -
· to any Kil	
Eula Cu, E, N-BIBO existre	ALL STORE
is PBD-closed	A 11
(Next case whose hal is a special are of BUR	(KI)= BCK)}
1.2. the age t= {k2}	
and the same of th	( 1 mf - 1 4 1)
· Rec fixed to the same () ( ) of a second of the same	A Maria
? Il a Cu, b, r, E, I) - BIBD exist?	
IS PBD-dosed I'm 2 hours 24 Lovery	5
Boot! So text	
- For fixed s, the set of U s.t. Is idempotent	1
	1 25%
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I will the sure make and the	r person
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