Moduloz projection onto general subspaces Inhost sessein we drived brooksman integral projection of wedar onto or denices with suspices. In his session we will run trough a sumple wante "we define x to be a 3 Dain vector, given by (2,1,1) and we define two boss vectors for our two 51 to be (1,2,0) and be to Sel pic

Ratmeans Unhahis spanned by by nobbe;

Sgong hobe (hoplane) the plain (see pic) (This sall s a)

U= [51, 52]

The Endogrand onthogonal projection is given as
"Thy of x is B times I, and we defene B

naw to be by and be Contatenated, which is

(1,2,0), (1,1,0), and I was given as B transpire

B mivese times B town pre X"

 $TIu(x) = B\lambda$ B = [5|52] = [3|5] $A = (BTB)^{T}B^{T}x$

"B transport X is given as (4,3) vector"

British HE

Bally = [3]

"Btrangese B is two by two machine undhich is # (5,3), (3,2) "

 $B^TB = \begin{bmatrix} 5 & 3 \\ 3 & 2 \end{bmatrix}$

"Now we some for A as Branspese Biniverse times Branspese X", which means we find A

BTBA = BTX

long guaran Elemenohañ, we arriveat!

1 aquals [3]

 $\exists \lambda = \begin{bmatrix} -1 \\ 3 \end{bmatrix}$

"This complos our projection of x onto space spanned by two 6 vectors" $= 7 T_4(x) = -15_1 + 35_2 = |\vec{1}|$

Enaby diagramman helect all corregard to:

PARENTY SUARDIAN (SIGNATURE)

This routhmake serse to Cause our projected point has a third companent, he zerold) and ar hubspace requires that he 3rd Comprant is always 300 Our projected vector [3] 5 Still 9 8 Dans vector, but we con represent it using 2 Coordinates of we use he basis defined by blad be Therefore hat he campant representation
of the projection of X on to the his laver
demensional but space.

In the session, we looked at a Cancete grample.
of the onthogenal projection of the 3 Dain
bector onto a Dam subspace.

In west session we good to exploit orthogenal
projections and derive a demonstration reduction
algorithm called Principal Campanent crays.

The driver is not allowed to exit the vehicle while there are children in the car. This means the child has to be waiting in the designated area, and on time. The driver cannot go and search for the child, reaving the other children in the vehicle unattended.

2. Occupants have to wear seat beits at all times

CODE OF CONDUCT

Apulsive and disriptive behaviour will not be relerated, children will be warned once, and
that such behaviour must coase.

2. We reserve the right to terminale the shuttle service, if the child engages in rough play or

ROUTE CHANGES

The loute schedule is subject to alterations at any time without prior notice and at the sole
discretions of the smuttle service.

2. However, we will make every affort to notify the parent/guardian of any cancellations of

3. We will not be liable for any damages whatsoever arising from such atterations and