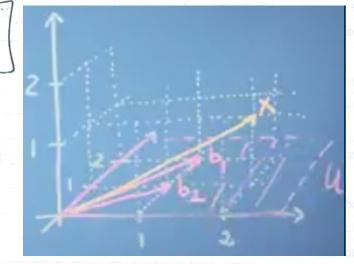
Móduloz Projection onto general subspaces Inhost session we drived broodborned onthegard projection of wectors onto ordenies with subspaces. In his session we will run hough a sumple Grouple "we define x to be a 3 Dain vector, given by (2,1,1) and we define two how vectors for our two dum Fulspace 51 to be (1,20) and 52 to See p.c)

Ratmeans Unhahis spanned by by adbz,
is going to be (hoplane) the plain (see pic) (This
fall is 4)

U= [51,62]



The Codogenar) onthogonal projection is given as "Tryofx is Bhuest, ad we defene is naw to be 5, and 52 Contatenated, which is (1,2,0), (1,1,0), and I was given as Btranspire

> $H_{\alpha}(x) = B\lambda$ B= [5/52] $= \begin{bmatrix} 1 & 1 & 1 \\ 2 & 0 & 0 \end{bmatrix}$

Brivese tomes Btorangue X"

A = (BTB) + BTX

"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 solve 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 implos our projection of x onto space spanned by two 6 vectors" $= \int T_{4}(x) = -15 + 35 = |7|$ Inact diagrammer helect all corregard to:
(See pic), his vector Rese This routhmake serse to Cause our projected point has a third component, he zerold) and ar hubspace reguins the sond Comprant is always 300 Our projected vector [27 5 8611 9 3 Dans vector, but we can represent it using 2 Coordinate of we use he basis defined by blad se

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 afterations and