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$$A \sim B$$
. (raddorivation)

Fine basiser for Nul A og GIA.

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4.3.26 Finn basis for H= Span{ sint, sin2r, sint cost}

Sint cost = $\frac{1}{2} \sin 2t$ $\Rightarrow \frac{2 \sin t \cos t}{2 \sin t \cos t} = \sin 2t$ Sint cost es linear hombinasjon as de to andre.

(0. sint + 2. sin 2t)

Sa H=Span{sixti sin 2+} Vil sjehle at sint og sin 2t er linear navit.

 $C_1 \cdot \sin t + c_2 \cdot \sin 2t = 0$ for all t.

(#) Seat in $T = \frac{TT}{2}$ c,1 + c,0 = [c, = 0]

Sett in t= Ty. 0 + 02.1=0 | 620

Sa {sirt, sin 2t} ur linear navhengige og sperner H. Så de er en basis.

4.3.32 Har T: V > W lin. auth. som ur 1-7

(boxyr ax
$$T(\vec{u}) = T(\vec{v}) \Rightarrow \vec{u} = \vec{v}$$
)

Vis ax on $\{T(\vec{v}), \dots, T(\vec{v})\}$ ar lin. authorying, avhorying, avhorying.

So ar origin $\{v_1, \dots, v_p\}$ dur.

Anta $= T(c_1\vec{v}_1 + \dots + c_p\vec{v}_p) = \vec{v}$

From linearitet $= T(c_1\vec{v}_1 + \dots + c_p\vec{v}_p) = \vec{v}$

Popu linearitet $= T(c_1\vec{v}_1 + \dots + c_p\vec{v}_p) = \vec{v}$

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Popu linearitet $= T(c_1\vec{v}_1$

Vis out [1, cost, cost, ..., cost] w

linear nawhengige.

Anta c.1+c.cost+cgost t...+cqcost=0

for alle t.

Sear in for 7 forshilling t-kerdier.

(f. dot=1, 2,3,--,7)

Test 7 lion., M7 whitever. Med mornise M.

Test 7 lion., M7 whitever.

MX=0 enouge lasning.

Sa as... var his nawhengig.

Shiv
$$\vec{y} = \begin{bmatrix} 0 \\ 0 \\ 2 \end{bmatrix}$$
 som hombinasion as $\vec{b}_1, -1 \vec{b}_2$

which and \vec{b}_1 by $\vec{c}_1 = \vec{b}_1$

That and $\vec{c}_1 = \vec{b}_2$

The radiation of $\vec{c}_1 = \vec{c}_1$

4.4.4 Oppoint at
$$|\vec{x}|_{g} = \begin{bmatrix} \frac{3}{2} \\ \frac{1}{2} \end{bmatrix}$$

Finn $|\vec{x}|$ without $|\vec{y}|$ standard—basistn:

 $|\vec{x}| = |\vec{x}|_{g} = \begin{bmatrix} -\frac{3}{2} \\ \frac{3}{2} \\ \frac{1}{2} \end{bmatrix} = \begin{bmatrix} -\frac{3}{2} \\ \frac{3}{2} \\ \frac{1}{2} \end{bmatrix} = \begin{bmatrix} \frac{3}{2} \\ \frac{1}{2} \end{bmatrix}$
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