Representer Therm.

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Law we can set $\langle xy \rangle = \frac{\| x xy \|^{\frac{1}{n}} \| x x^{2} \|_{H^{n}}^{2}}{\cdots}$ therefore of a popular of the state of the s If we can check an identity cilled the partition will
$$\begin{split} &\| \left\| \nabla v_{n} \right\|^{2} + \| V_{n} v_{n} \right\|^{2} = 2 \| v_{n} \|^{2} + 2 \| w_{n} \|^{2} \\ &\text{then we have an inner product, role that some norms like <math>\ell_{1}$$
 d and substitute the same. Orlingual To works I had to me consequent the

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being all right angles. To vitigal works

the con simplify the production for Property at possession and property and a support of the closed point is A to V. Print A decognition V= (V-PaljaV)+ PaljaV The entryal vectors. Throthe we have 11 v11 = 11 v11 We can interpret this inequality as saying projections decrease length In the representant theorem be how an objective function of the form L(<u,x,>,...,<u,x,>)+R((u)) Here L is a whicking flathin of some probets with Exi, ..., x n training dis. How R is a madecreasing fourtime. Take M to be the subspace of Leating space gamble by \$x_1,...,x_n?. Note <u > >= < (u- Projau, x;> = < P. J. v. ×:> 11 m | > | Prija v |

Therefore

R(||u||) > R(||P₁|₁,u||)

So the option subtine U* slowled be in A

Ue on writing the send + vector of the

from Ue Exix: