In \$3, x = (2,1+2)

"" compute (x,y), ||x||, ||y||, ||x + y||

"" In c [0,1], let fit] = t and g gtt = et compute (f,g)

[If II, ||g|| and ||f + g||

(f,g) = [fit]g(t) dt.

Also veney cauchy's schwartz's inequality and the trangle linequality for both the grestions.

Areanistanial. rectors.

Qued oneck of 8 18 oxthogonal 1

Men check is significant orthonormel. R3 Over IR PS $\langle x_{1}, x_{2} \rangle = \langle u \rangle \langle u \rangle + \langle u \rangle \langle v \rangle = 1 - 1 = 0$ $\langle x_{2}, x_{3} \rangle = 1 + 1 = 0$ (x31x1) = -1+1=0. co S is osthogonal.

178 - 10 EX 11 11 x,11= ~ (x,x,7 = 1 (1+1+0) $||x_2|| = \sqrt{\langle x_2, x_2 \rangle} = \lambda 3$. same or allo

PROVE OF CANCHY SCHWARTS INEQUALITY

COK. If y=0, then obviously the megosphy hold the

$$Cok.$$
 If y=0, then consider $0 \le 11 \times -641^{-1} = (x-4)^{-1} \times -64^{-1} \times -$

11 1R3, for the subset S= & = (1,1,0), \(\frac{1}{2} (1,1,0), \(\frac{1}{2} (1,-1,1), \(\frac{1}{2} (1,1,0) \), \(\frac{1}{2} (1,-1,1), \(\frac{1}{2} (1,1,0) \), \(\frac{1}{2} (1,-1,1), \(\frac{1}{2} (1,-1,1) \), \(\frac{1}{2} (1,-1,1), \(\frac{1}{2} (1,-1,1) \), \(\frac{

check of 8 is osthonormal

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