N37.33 (b, n)

N37.35 $h(f,g) = \int f(x)g(x)dx = f(x)g(x) \int_{0}^{\pi} \int f(x)g(x)dx$ 2h(f,f)=f2(1)-f2(0)=0. h(f,f)=0 2) h(gf)= f(x)g(x)=- fg'(x)e(x)dx $h(g_1f)+h(f_1g)=f(x)g(x)|_{1=0-0=0}^{1=0.0}$ Définici $x^2-x=f_1(x)=x(x-1)$ $(x^2-x)=f_2(x)$ $(x^2-x)=f_2(x)$ elm f(x) = ax2+bx+c = f(p)=C=>C=0. f(1) = a+b+0=0 => a=-b => f(x) = ax-bx = ax(x-1). = a. +1(x) een f(x) = ax3+bx2+cx+d f(0)=0 => d=0 f(1) = a + b + c = 0



=) $u_{e}v_{k} > u_{i}v_{i+...+} u_{k}v_{k+} = u_{k}v_{k}$. Morub =.k $f(u,v) = u_{i}v_{i+...+}u_{k}v_{k}$ - $u_{k}v_{k} = 0$.

(f,g) = \int f(t)g(t)dt 1) \int f(t)g(t)dt = \int g(t)f(t)dt 2) (df, \beta f_2,g) = \int (df,t) + \beta f_2(t) \g(t) dt = - d \int f, (t) g(t) dt + \beta \int f_2(t) g(t) dt = d(f,g) + \beta (f,g), 3) (f,f) = \int f'(t) dt >0 NUS.U

$$cos \lambda = \frac{\sum x_i y_i}{\sqrt{\sum x_i^2 - \sqrt{\sum y_0^2}}} = \frac{1}{1.\sqrt{n}} = \frac{1}{\ln n}$$

$$X_{l} = (1, 0, 0)$$

$$y_{l} = (1, 1, 0)$$

N 25.35 1) | 1 1 1 1 | (\(\) \ 2) |-1-1-1 => (e3,e3)=1 -he momes out 4) 101011 - WET rik : ongar (83,83)=0

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