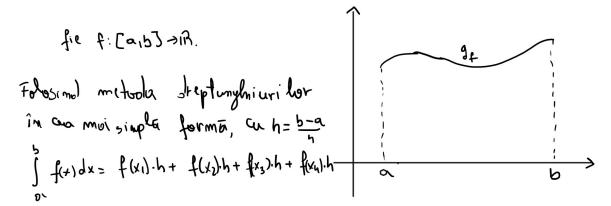
Explication Cuordroturi Gouss.



Cumbroturile Coussione me ajutoi sa gasim inteligent voluti wijxi oisa incôt

[f(x) d x & 2 wi f(xi) (1)

7.7. cozul cu m=4 ; improbabl [-1,1], vrem sā oproximām exoct

f(x)=1, x,x², x³, ovend w, w, w, w, oplicanol(1)

=> | fx dx = w, f(x1) + w2 f(x2) + w3 f(x3) + w4 f(x1) (este o pb limitoro)

in roport on f) (2)

 $\int_{-1}^{1} dx = 2; \qquad \int_{-1}^{1} x \, dx = 0; \qquad \int_{-1}^{1} x^2 \, dx = \frac{2}{3}; \qquad \int_{-1}^{1} x^3 \, dx = 6$

Pentru a colcula precis integrable de moi sus, folosimol (2)., impunom sistemul

$$\begin{bmatrix}
1 & 1 & 1 & 1 \\
x_1 & x_2 & x_3 & x_4 \\
x_1^2 & x_1^2 & x_3^2 & x_4^2 \\
x_1^3 & x_2^3 & x_3^3 & x_4^3
\end{bmatrix}
\begin{bmatrix}
\omega_1 \\
\omega_2 \\
\omega_3 \\
\omega_4
\end{bmatrix}
=
\begin{bmatrix}
2 \\
0 \\
\frac{1}{5} \\
0
\end{bmatrix}$$
(3)

Obs cut A- Vorndermand 2) prost constitionatoi (am as putea evita fobosirea ei?)

Regolusea sist de moi sus, me ofera ponderile wi, pontru orflorea udorilor xi, consideram cosal folosivii polinoomelor Leymolre. trand polinomul ? (x), gradul lui P(x) = 2m-1

Impartine P(x) la Lu(x) => P(x) = \frac{1}{2}(x) \cdot \Laker + \frac{1}{2}(x) \Laker \Laker + \frac{1}{2}(x) \Laker \Laker + \frac{1}{2}(x) \Laker + \frac{1}{2}(x) \delta \delt

Alegen produk xi, so fre rosoloscimish polinomulus Lnk), as a smost (1)=0=)

=> \int \frac{1}{2}(x) dx = \int \frac{1}{2} \rangle \frac{1}{2}(x) dx (3). Ausnol punctely xi, puter colculus pomberile wi,

10 \frac{1}{2} \delta \cdot \delta \d

[!] Nu on inteles exoct cum sã folosime motricus Jacobi et a colarbo roiolaicimile lui Lm H. ?i mu sunt mici sigur docă intuițile mea asupra cubidroturilor Coussiene este corectà.