Vandermonde matrices

1分

Let V be the generalized Vandermonde matrix for a set of functions $\phi_1(x), \phi_2(x), \phi_3(x)$ at three points x_1, x_2, x_3.

Let V' be the generalized Vandermonde matrix for the functions $\phi'_1(x), \phi'_2(x), \phi'_3(x)$ at the points x_1, x_2, x_3.

If the vector $y = [f(x_1), f(x_2), f(x_3)]$ contains function values of a function f to be interpolated, which of the following computes an approximation to point values of the derivative $[f'(x_1), f'(x_2), f'(x_3)]$?

选项*

○ $V'V^T$

○ V^TV'

○ VV^{-1}

○ $V'V^{-1}$

保存回答   提交最终回答