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# 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