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$$x_{\text{All}} = \sum_{i=1}^n x_i(t) \cdot \int \frac{\overbrace{\begin{vmatrix} x_1(t) & x_2(t) & \cdots & 0 & \cdots & x_n(t) \\ x_1'(t) & x_2'(t) & \cdots & 0 & \cdots & x_n'(t) \\ \vdots & \vdots & \cdots & \vdots & \cdots & \vdots \\ x_1^{(n-1)}(t) & x_n^{(n-1)}(t) & \cdots & 1 & \cdots & x_n^{(n-1)}(t) \end{vmatrix}}^k}{\mathcal{W}(t)} f(t) \, dt.$$