

$$\det \begin{pmatrix} c(t,t) & c(t,s) + \dots & c(t,t) + \dots \\ c(s,t) + \dots & c(s,s) & \dots \\ c(s,s) + \dots & \dots & \dots \end{pmatrix}$$

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$$= \det \begin{pmatrix} c(t,t) & \dots \\ f'(s)f''(s) & \dots \end{pmatrix}$$

$$= \det \begin{pmatrix} c(t,t) & f'(t)f''(t)(s-t) + \dots \\ c(s,s) + \dots & -f'(s)f''(s)(t-s) \end{pmatrix}$$

$$= \det \begin{pmatrix} c(t,t) & f'(t)f''(t)(t-s) + f'(t)f''(t)(t-s)^2 \\ c(s,s) + f'(s)f''(s)(s-t) + f'(s)f'''(s)(t-s)^2 \end{pmatrix}$$

$$\det \begin{pmatrix} f'(t) & B \\ I & \bigcirc \end{pmatrix} = \det(f'(t) \begin{bmatrix} \square \end{bmatrix} - BC)$$