Eservisio # 4, Cap, 6 dispense

1° motodo (non troppo consigliato)

$$f'(\cos(2t+1))(\omega)$$

RISCALAMENTO

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 $f'(\cos$

$$= \frac{e^{\pi i \omega}}{2} \left[\int_{\Pi} + \int_{\Pi} \frac{1}{\pi} \right]$$

$$= \frac{e^{\pi i \omega}}{2} \int_{\Pi} + \frac{e^{\pi i \omega}}{2} \int_{\Pi} \frac{1}{\pi} \int_{\Pi} h(t_0) \int_{t_0}^{t_0} dt_0$$

$$= \frac{\pi i \frac{1}{\pi}}{2} \int_{\Pi} + \frac{e^{\pi i (-\frac{1}{\pi})}}{2} \int_{\Pi} \frac{1}{\pi} dt_0$$

$$z = \frac{e^{i}}{z^{2}} \int_{\pi}^{\pi} dx + \frac{e^{-i}}{z^{2}} \int_{\pi}^{\pi} dx$$

$$\frac{3(\cos(2t+1))(\omega)}{2} = 3(\frac{e^{(2t+1)i} + e^{-(2t+1)i}}{2})(\omega)$$

$$= \frac{1}{2} e^{i} \Im(e^{2ti})(w) + \frac{1}{2} e^{-i} \Im(e^{-2ti})$$

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