

$$= \int_2^3 \frac{\ln 2}{t^2 + 1} dt - \int_2^3 \frac{\ln(t-1)}{t^2 + 1} dt = \ln 2 \int_2^3 \frac{1}{t^2 + 1} dt - I \quad (1p)$$

$$\text{Dar } \int_2^3 \frac{1}{t^2 + 1} dt = \arctg 3 - \arctg 2 = \arctg \frac{1}{7} \quad (1p)$$

$$\text{Finalizare } I = \frac{\arctg \frac{1}{7}}{2} \ln 2 . \quad (1p)$$