

$$\begin{aligned} I &= \int_2^3 \left(\frac{x-1}{(x-1)^2} + \frac{1}{(x-1)^2} \right) dx \\ &= \int_2^3 \left(\frac{1}{x-1} + \frac{1}{(x-1)^2} \right) dx \end{aligned}$$

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章末問題 3.4(3)

解答

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$$\begin{aligned}&= [\log|x - 1| - \frac{1}{x - 1}]_2^3 \\&= \log 2 - \frac{1}{2} + 1 = \log 2 + \frac{1}{2}\end{aligned}$$