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Kalkulus

$$3. \int_e^{e^3} \frac{5}{x \ln^2(x)} dx$$

Solusi :

$$\int_e^{e^3} \frac{5}{x \ln^2(x)} dx$$

$$\int \frac{5}{x \ln^2(x)} dx$$

$$\int \frac{5}{t^2} dt$$

$$\int \left(-\frac{1}{t}\right)$$

$$5 \cdot \left(-\frac{1}{\ln(x)}\right) \rightarrow -\frac{5}{\ln(x)}$$

$$-\frac{5}{\ln(x)} \Big|_e^{e^3} \rightarrow -\frac{5}{\ln(e^3)} - \left(-\frac{5}{\ln(e)}\right) = \frac{10}{3}$$

KIRY