

# Double Integrals over General Regions



## Question

Determine which of the following integrals is equal to

$$\int_0^{\ln(10)} \int_1^{e^x} ye^x dy dx.$$

A.  $\int_1^{10} \int_0^{\ln(y)} ye^x dx dy$

B.  $\int_1^{10} \int_{\ln(y)}^{\ln(10)} ye^x dx dy$

C.  $\left( \int_0^{\ln(10)} x dx \right) \left( \int_1^{e^x} y dy \right)$

D.  $\left( \int_0^{\ln(10)} x dx \right) \left( \int_1^{10} y dy \right)$