

$$\textcircled{Q} \quad f(x) = e^x + 2x + 1$$

$$e+3$$

$$\int_2^{\quad} f^{-1}(x) dx = ?$$

Ans.

$$= bf(b) - af(a) - \int_a^b f(x) dx$$

$$= f(1) - 0 - \int_1^{\quad} (e^x + 2x + 1) dx$$

$$= e+3 - (e^0 - 1) - (1) - 1$$

$$= 3 + 1 - 1 - 1 = 2$$