12.07

tisdag 20 december 2022 13:29

a) $\int e^{x^2} \cdot 2x\,dx = \int f(g(x)) \cdot g'(x)\,dx = f(g(x)) + C = e^{x^2} + C$

$De^{x^2} = e^{x^2} \cdot Dx^2 = e^{x^2} \cdot 2x$

b) $\int e^{x^2} \cdot 2x\,dx = \left[\begin{array}{l} t = x^2 \quad x = \sqrt{t} \\ \frac{dt}{dx} = 2x \quad dt = 2x\,dx \end{array}\right] = \int e^t\,dt = e^t + C = e^{x^2} + C$ V.S.V