

$$\int x \sin x^2 dx$$

$$t = x^2 \text{ とおくと } dt = 2x dx \text{ より}$$

$$(5式) = \int \frac{1}{2} \sin t dt$$

$$= -\frac{1}{2} \cos t + C$$

$$= -\frac{1}{2} \cos x^2 + C \quad (C \text{ は積分定数})$$