

- 1 (1)  $-4x^3 + 6x - 1$   
 (2)  $-10 \sin 2x + 9 \cos 3x$   
 (3)  $\frac{2}{x} - e^x$   
 (4)  $2x \sin x + (x^2 + 1) \cos x$   
 (5)  $(1 - x^2)/(1 + x + x^2)^2$   
 (6)  $-\frac{2}{x(1 + \log x)^2}$   
 (7)  $\frac{1}{\sqrt{1 - x^2}}$   
 (8)  $\frac{1}{\sqrt{x^2 + 1}}$   
 (9)  $x^{\sin x} \left( \cos x \log x + \frac{\sin x}{x} \right)$

2 ( $C$  は積分定数)

- (1)  $\frac{1}{20}x^5 + x^3 + 5x + C$   
 (2)  $-4 \cos x - 5 \sin x + C$   
 (3)  $-\frac{1}{2} \cos 2x + C$   
 (4)  $\log |x + 1| + C$   
 (5)  $\frac{1}{15}(3x + 5)^5 + C$   
 (6)  $-\frac{x^2}{4} + \frac{x^2}{2} \log x + C$   
 (7)  $\log |x^4 + x + 8| + C$   
 (8)  $2$   
 (9)  $-\frac{1}{4} \cos 2x + \sin x + C$