

① $\int x e^{2x} dx$

② $\int \frac{1}{x^2 - 6x + 11} dx$

$$\textcircled{3} \int \frac{3x+1}{x^2+2x-3} dx$$

$$\textcircled{4} \int_1^{e^\pi} \frac{\sin(\ln x)}{x} dx$$