

Integration by Parts

①  $\int x e^{2x} dx$

②

$\int x \sin 6x dx$

③

$\int \ln x dx$

④

$\int \frac{\ln x}{x^3} dx$

⑤

$\int (1-2x)e^{-x} dx$

⑥

$\int x^2 e^{-3x} dx$

⑦

$\int 25x^4 \ln x dx$

⑧

$\int 3x \cos 2x dx$

⑨

$\int 12x \cos 3x dx$

⑩

$\int x \sec^2 x dx$