

# Calculus Problem Test

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1. Solve

$$\int x^2 dx$$

①  $\frac{x^3}{3} + C$

②  $\frac{x^2}{2} + C$

③  $\frac{x^3}{2} + C$

④  $x^2 + C$

2. Solve

$$\int 4x^3 dx$$

①  $x^4 + C$

②  $\frac{1}{x} + C$

③  $x^2 + C$

④  $x^4 + C$