

# تمرینات فصل چهارم انتگرال

$$① \int a^n + \omega \sin a dx$$

$$② \int \frac{x-1}{x} dx$$

$$③ \int x^n + e^{kx} dx$$

$$④ \int e^{(n+1)x} - \omega dx$$

3

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

4

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

5

$$\int 9 - \frac{9}{x-10} dx$$

8

$$\int \frac{x^k}{x^3 - 1} dx$$

9

$$\int \omega x - \gamma e^{-\gamma x} dx$$

10

$$\int \frac{\gamma x^k - \omega}{x} dx$$

11

$$\int \frac{\gamma x^4}{x^2 - \gamma} dx$$

14

$$\int e^{ax} - 10 \sin x + 11 dx$$

15

$$\int \frac{7x^2 + 4}{x} dx$$

16

$$\int \frac{\sin x - 4}{x} dx$$

10

$$\int a e^{ax} + b \cos x - c dx$$