

## **Primitive**

- 1.**  $\int \frac{\operatorname{arctg} x}{x^2} dx, \quad x \in (0, \infty);$
- 2.**  $\int \frac{x \sin x}{(1 + \cos x)^2} dx, \quad x \in \left(0, \frac{\pi}{2}\right);$
- 3.**  $\int \frac{1}{x\sqrt{x^2 - 1}} dx, \quad x \in (-\infty, -1);$
- 4.**  $\int \frac{1}{2\sqrt{x - x^2}} dx, \quad x \in (0, 1);$
- 5.**  $\int_0^{2\pi} \frac{1}{3 + \cos x} dx;$
- 6.**  $\int \frac{1}{x^4 + 1} dx, \quad x \in (0, \infty).$