

## Série příkladů č. 8

Vypočtěte integrály:

$$\bullet \int \frac{\sqrt{x}(x^2 - 1)}{\sqrt[3]{x}} dx;$$

$$\bullet \int \frac{x^3 - 1}{x^2 - x} dx;$$

$$\bullet \int (2x + 5) \cos x dx;$$

$$\bullet \int (x^2 + x + 1) \sin x dx;$$

$$\bullet \int \sqrt{x} \ln x dx;$$

$$\bullet \int e^{3x+7} dx;$$

$$\bullet \int x^2 \sqrt{x^3 + 1} dx;$$

$$\bullet \int \frac{x}{\sqrt[3]{x^2 + 7}} dx;$$

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

$$\bullet \int \frac{x^2 + x + 1}{x^3 + x} dx;$$

$$\bullet \int \sin^3 x dx;$$

$$\bullet \int \frac{\sin^3 x}{\cos^2 x} dx;$$

$$\bullet \int \frac{1}{1 + \sqrt{x}} dx;$$

$$\bullet \int x^2 \sqrt{x + 2} dx.$$