

9. série - pro kruh 161

1. Spočtěte

(a) $\int \frac{\cos^3 x}{\sin^2 x} dx$

(b) $\int \sin^4 x dx$

(c) $\int \frac{3+x}{4-x^2} dx$

(d) $\int \frac{4x^3}{x^4-1} dx$

(e) $\int \sin(2x)2^x dx,$

(f) $\int 2x \cos(x^2) dx,$

(g) $\int \sqrt{\frac{\log_{\frac{1}{3}} 9}{x^2-1}} dx$

(h) $\int x \cdot \operatorname{arccotg}(2x) dx,$

(i) $\int \frac{x}{-3x^2+5x-2} dx$

(j) $\int \frac{2}{1-\sqrt{x}} dx$

(k) $\int \frac{2x^4+x+1}{x^3+x} dx$

(l) $\int \frac{\arcsin x}{\sqrt{1-x^2}} dx$

(m) $\int \frac{2}{1-3e^{2x}} dx$

(n) $\int \frac{4x^2+4x+7}{x^3+4x^2+7x} dx$