

DZ (6)

Izračunaj integral:

1. $\int \cos 5x \cdot \sin 3x \, dx$ (rj: $\frac{\cos 2x}{4} - \frac{\cos 8x}{16} + C$)

2. $\int \cos 4x \cdot \cos 2x \, dx$ (rj: $\frac{\sin 2x}{2} + C$)

3. $\int \sin^3 x \cdot \cos^2 x \, dx$ (rj: $-\frac{\cos^3 x}{3} - \frac{\cos^5 x}{5} + C$)

4. $\int \sin x \cdot \cos^3 x \, dx$ (rj: $-\frac{\cos 2x}{2} - \frac{1}{8} \cos 4x + C$)

5. $\int \sin^4 x \, dx$ (rj: $\frac{3}{8}x - \frac{1}{4} \sin 2x + \frac{1}{32} \sin 4x + C$)

6. $\int \sin^2 x \cdot \cos^2 x \, dx$ (rj: $\frac{x}{8} - \frac{\sin 4x}{32} + C$)