

Integrationsmethoden Lösungen

1. $(x-1)e^x + c$

2. $(x^2 - 2x + 2)e^x + c$

3. $3e^7 + \frac{1}{e}$

4. $\frac{\alpha}{\alpha^2 + \omega^2} \left(1 - e^{-\frac{2\pi\alpha}{\omega}}\right)$

5. $\frac{3}{2} \ln(t^2 + 1) + c$

6. $\frac{1}{6} \sqrt{(2x^2 + 1)^3} + c$

7. $e^2 - 1$

8. $\frac{1}{2} (e^{2a} - e^{-2a})$

9. $1 - 2 \ln 2$

10. $\ln \frac{(x-3)^2}{|x+2|^3} + c$

11. $2 + \ln 18$

12. $\frac{1}{2}x^2 - \frac{1}{x-1} + \ln [(x+2)^2|x-1|] + c$