Herhalingsoefeningen onbepaalde integralen

0.1 Niveau 2

Oefening 1. Bereken volgende onbepaalde integralen

1. $\int \frac{x}{\sqrt{4-x^2}}\,dx = \ldots\ldots$
2. $\int \frac{2x^2+3}{2x^2+1}\,dx = \ldots\ldots$
3. $\int \frac{\ln x}{x\ln x - x}\,dx = \ldots\ldots$
4. $\int \frac{e^x}{1+e^{2x}}\,dx = \ldots\ldots$
5. $\int x\ \mathrm{bgtan}\, x\,dx = \ldots\ldots$
6. $\int \frac{1}{5^{2x}}\,dx = \ldots\ldots$
7. $\int e^{-x}\cos 3x\,dx = \ldots\ldots$
8. $\int (\ln x)^3\,dx = \ldots\ldots$
9. $\int \sin 2x\cdot\sin 4x\,dx = \ldots\ldots$
10. $\int \frac{1}{e^x+e^{-x}}\,dx = \ldots\ldots$
11. $\int \frac{\sin x}{1+\cos x}\,dx = \ldots\ldots$
12. $\int x(1+x)^{3/2}\,dx = \ldots\ldots$
13. $\int \sin^2 x\,dx = \ldots\ldots$

Oefening 2. Bereken volgende onbepaalde integralen

1. $\int \frac{e^x}{5(e^x-1)}\,dx = \ldots\ldots$
2. $\int \frac{3x}{(x^2-1)^{3/2}}\,dx = \ldots\ldots$
3. $\int e^{-2t}\sin t\,dt = \ldots\ldots$

CC BY-NC-SA 4.0

0.2 Niveau 3

Oefening 3. Bereken volgende onbepaalde integralen

1. $\int \frac{\cos^2 x}{1+\sin x}\, dx = \ldots\ldots$
2. $\int x^3 e^{x^2}\, dx = \ldots\ldots$
3. $\int \sin(\ln x)\, dx = \ldots\ldots$

Oefening 4. Bereken volgende onbepaalde integralen

1. $\int \frac{2x^2-3x+1}{2x^2+1}\, dx = \ldots\ldots$
2. $\int \frac{4}{x^2-4x+4}\, dx = \ldots\ldots$
3. $\int \frac{3t+1}{1+t^2}\, dt = \ldots\ldots$
4. $\int \frac{1}{x^2-4x+7}\, dx = \ldots\ldots$
5. $\int \frac{x^2+x+1}{x^2+1}\, dx = \ldots\ldots$
6. $\int \frac{3x+3}{x^2+2x+1}\, dx = \ldots\ldots$

CC BY-NC-SA 4.0
KU Leuven (2026/09/28H.47)