

Partieel Integreren (of partieel primitiveren)

$$(f(x) \cdot g(x))' = f'(x) \cdot g(x) + f(x) \cdot g'(x)$$

$$f(x) \cdot g'(x) = (f(x) \cdot g(x))' - f'(x) \cdot g(x)$$

$$\int f(x) \cdot g'(x) dx = f(x) \cdot g(x) - \int f'(x) \cdot g(x) dx$$

1. $\int 5 \cdot \ln x dx =$
2. $\int (3x - 1) \cdot e^x dx =$
3. $\int x \cdot \sin x dx =$
4. $\int x^2 \cdot \sin 2x dx =$
5. $\int \arcsin x dx =$
6. $\int (2x^2 - 4x) \cdot e^x dx =$
7. $\int \arctan x dx =$
8. $\int (\ln x)^2 dx =$
9. $\int x^2 \cdot \ln 2x dx =$
10. $\int x^2 \cdot \cos x dx =$
11. $\int (3x - 1) \cdot e^{-x} dx =$
12. $\int x \cdot \cos(x + 2) dx =$
13. $\int \ln(x - 2) dx =$
14. $\int x \cdot \sin(x + 1) dx =$
15. $\int (2 + \ln x) dx =$
16. $\int x \cdot \cos 2x dx =$
17. $\int (x^2 - 2x) \cdot e^x dx =$
18. $\int \ln 2x dx =$
19. $\int (x + 1) \cdot \cos 3x dx =$
20. $\int 2x \cdot \ln(x + 3) dx =$