

TEMEL İNTEGRAL FORMÜLLERİ

1. $\int u^n du = \frac{u^{n+1}}{n+1} + c$
2. $\int \frac{du}{u} = \ln u + c$
3. $\int \exp(u) du = e^u + c$
4. $\int a^u du = \frac{1}{\ln a} a^u + c$
5. $\int \sin u du = -\cos u + c$
6. $\int \cos u du = \sin u + c$
7. $\int \tan u du = -\ln(\cos u) + c$
8. $\int \cot u du = \ln(\sin u) + c$
9. $\int \sec u du = \ln(\sec u + \tan u) + c$
10. $\int \csc u du = \ln(\csc u - \cot u) + c$
11. $\int \sec^2 u du = \tan u + c$
12. $\int \csc^2 u du = -\cot u + c$
13. $\int \tan^2 u du = \tan u - u + c$
14. $\int \cot^2 u du = -\cot u - u + c$
15. $\int \frac{du}{u^2 + a^2} = \frac{1}{a} \arctan \frac{u}{a} + c$
16. $\int \frac{du}{u^2 - a^2} = \frac{1}{2a} \ln \left| \frac{u-a}{u+a} \right| + c$
17. $\int \frac{du}{\sqrt{a^2 - u^2}} = \arcsin \frac{u}{a} + c$
18. $\int \frac{du}{\sqrt{u^2 + a^2}} = \ln(u + \sqrt{(u^2 + a^2)}) + c$
19. $\int \frac{du}{\sqrt{u^2 - a^2}} = \ln(u + \sqrt{(u^2 - a^2)}) + c$
20. $\int \sinh u du = \cosh u + c$
21. $\int \cosh u du = \sinh u + c$
22. $\int \tanh u du = \ln(\cosh u) + c$

