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1. $\dfrac{d}{dx}\left(\dfrac{x^{n+1}}{n+1}\right)=x^n, n\neq -1 \Rightarrow \int x^n\,dx=\dfrac{x^{n+1}}{n+1}+C, n\neq -1$

2. $\dfrac{d}{dx}(\log_e x)=\dfrac{1}{x} \Rightarrow \int \dfrac{1}{x}\,dx=\log_e |x|+C$

3. $\dfrac{d}{dx}(e^x)=e^x \Rightarrow \int e^x\,dx=e^x+C$

4. $\dfrac{d}{dx}\left(\dfrac{a^x}{\log_e a}\right)=a^x, a>0, a\neq 1 \Rightarrow \int a^x\,dx=\dfrac{a^x}{\log_e a}+C$

5. $\dfrac{d}{dx}(-\cos x)=\sin x \Rightarrow \int \sin x\,dx=-\cos x+C$

6. $\dfrac{d}{dx}(\sin x)=\cos x \Rightarrow \int \cos x\,dx=\sin x+C$

7. $\dfrac{d}{dx}(\tan x)=\sec^2 x \Rightarrow \int \sec^2 x\,dx=\tan x+C$

8. $\dfrac{d}{dx}(-\cot x)=\text{cosec}^2 x \Rightarrow \int \text{cosec}^2 x\,dx=-\cot x+C$

9. $\dfrac{d}{dx}(\sec x)=\sec x\tan x \Rightarrow \int \sec x\tan x\,dx=\sec x+C$

10. $\dfrac{d}{dx}(-\text{cosec}\,x)=\text{cosec}\,x\cot x \Rightarrow \int \text{cosec}\,x\cot x\,dx=-\text{cosec}\,x+C$

11. $\dfrac{d}{dx}(\log\sin x)=\cot x \Rightarrow \int \cot x\,dx=\log|\sin x|+C$

12. $\dfrac{d}{dx}(-\log\cos x)=\tan x \Rightarrow \int \tan x\,dx=-\log|\cos x|+C$

13. $\dfrac{d}{dx}[\log(\sec x+\tan x)]=\sec x \Rightarrow \int \sec x\,dx=\log|\sec x+\tan x|+C$

14. $\dfrac{d}{dx}[\log(\text{cosec}\,x-\cot x)]=\text{cosec}\,x$

$\Rightarrow \int \text{cosec}\,x\,dx=\log|\text{cosec}\,x-\cot x|+C$

15. $\dfrac{d}{dx}\sin^{-1}\left(\dfrac{x}{a}\right)=\dfrac{1}{x\sqrt{a^2-x^2}} \Rightarrow \int \dfrac{1}{\sqrt{a^2-x^2}}\,dx=\sin^{-1}\left(\dfrac{x}{a}\right)+C$

16. $\dfrac{d}{dx}\cos^{-1}\left(\dfrac{x}{a}\right)=\int \dfrac{-1}{\sqrt{a^2-x^2}} \Rightarrow \int \dfrac{-1}{\sqrt{a^2-x^2}}\,dx=\cos^{-1}\left(\dfrac{x}{a}\right)+C$

17. $\dfrac{d}{dx}\left(\dfrac{1}{a}\tan^{-1}\dfrac{x}{a}\right)=\dfrac{1}{a^2+x^2} \Rightarrow \int \dfrac{1}{a^2+x^2}\,dx=\dfrac{1}{a}\tan^{-1}\left(\dfrac{x}{a}\right)+C$

18. $\dfrac{d}{dx}\left(\dfrac{1}{a}\cot^{-1}\dfrac{x}{a}\right)=\dfrac{-1}{a^2+x^2} \Rightarrow \int \dfrac{-1}{a^2+x^2}\,dx\dfrac{1}{a}=\cot^{-1}\left(\dfrac{x}{a}\right)+C$

19. $\dfrac{d}{dx}\left(\dfrac{1}{a}\sec^{-1}\dfrac{x}{a}\right)=\dfrac{1}{x\sqrt{x^2-a^2}} \Rightarrow \int \dfrac{1}{x\sqrt{x^2-a^2}}\,dx=\dfrac{1}{a}\sec^{-1}\left(\dfrac{x}{a}\right)+C$

20. $\dfrac{d}{dx}\left(\dfrac{1}{a}\text{cosec}^{-1}\dfrac{x}{a}\right)=\dfrac{-1}{x\sqrt{x^2-a^2}}$

$\Rightarrow \int \dfrac{-1}{x\sqrt{x^2-a^2}}\,dx=\dfrac{1}{a}\text{cosec}^{-1}\left(\dfrac{x}{a}\right)+C$

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