

I'm not robot!

1. Limits	2. Common Derivatives
$\lim_{x \rightarrow a} (f(x) \pm g(x)) = \lim_{x \rightarrow a} f(x) \pm \lim_{x \rightarrow a} g(x)$ $\lim_{x \rightarrow a} (c \cdot f(x)) = c \cdot \lim_{x \rightarrow a} f(x)$ $\lim_{x \rightarrow a} \frac{f(x)}{g(x)} = \frac{\lim_{x \rightarrow a} f(x)}{\lim_{x \rightarrow a} g(x)}$ $\lim_{x \rightarrow a} \sqrt[n]{f(x)} = \sqrt[n]{\lim_{x \rightarrow a} f(x)}$ $\lim_{x \rightarrow a} \frac{1}{f(x)} = \frac{1}{\lim_{x \rightarrow a} f(x)}$ $\lim_{x \rightarrow a} f(x)^{g(x)} = \lim_{x \rightarrow a} f(x)^{\lim_{x \rightarrow a} g(x)}$	$\frac{d}{dx} x^n = nx^{n-1}$ $\frac{d}{dx} c = 0$ $\frac{d}{dx} \sin x = \cos x$ $\frac{d}{dx} \cos x = -\sin x$ $\frac{d}{dx} \tan x = \sec^2 x$ $\frac{d}{dx} \cot x = -\csc^2 x$ $\frac{d}{dx} \sec x = \sec x \tan x$ $\frac{d}{dx} \csc x = -\csc x \cot x$ $\frac{d}{dx} e^x = e^x$ $\frac{d}{dx} \ln x = \frac{1}{x}$ $\frac{d}{dx} a^x = a^x \ln a$ $\frac{d}{dx} \log_a x = \frac{1}{x \ln a}$ $\frac{d}{dx} \sinh x = \cosh x$ $\frac{d}{dx} \cosh x = \sinh x$ $\frac{d}{dx} \sinh^{-1} x = \frac{1}{\sqrt{1+x^2}}$ $\frac{d}{dx} \cosh^{-1} x = \frac{1}{\sqrt{x^2-1}}$

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Merging man and maths

Important Derivates & Integrals

CALCULUS AND ANALYTIC GEOMETRY, MATHEMATICS 12

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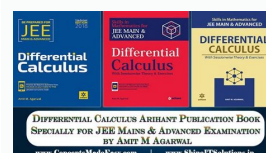
- $\frac{d}{dx} c = 0$ where c is constant
- $\frac{d}{dx} x^n = nx^{n-1}$
- $\frac{d}{dx} \sin x = \cos x$
- $\frac{d}{dx} \tan x = \sec^2 x$
- $\frac{d}{dx} \csc x = -\csc x \cot x$
- $\frac{d}{dx} \cos x = -\sin x$
- $\frac{d}{dx} \cot x = -\csc^2 x$
- $\frac{d}{dx} \sec x = \sec x \tan x$
- $\frac{d}{dx} \sin^{-1} x = \frac{1}{\sqrt{1-x^2}}$
- $\frac{d}{dx} \tan^{-1} x = \frac{1}{1+x^2}$
- $\frac{d}{dx} \sec^{-1} x = \frac{1}{x\sqrt{x^2-1}}$
- $\frac{d}{dx} \cos^{-1} x = \frac{-1}{\sqrt{1-x^2}}$
- $\frac{d}{dx} \cot^{-1} x = \frac{-1}{1+x^2}$
- $\frac{d}{dx} \csc^{-1} x = \frac{-1}{x\sqrt{x^2-1}}$
- $\frac{d}{dx} a^x = a^x \ln a$
- $\frac{d}{dx} \log_a x = \frac{1}{x \ln a}$
- $\frac{d}{dx} e^x = e^x$
- $\frac{d}{dx} \ln x = \frac{1}{x}$
- $\frac{d}{dx} \sinh x = \cosh x$
- $\frac{d}{dx} \tanh x = \text{sech}^2 x$
- $\frac{d}{dx} \text{sech} x = -\text{sech} x \tanh x$
- $\frac{d}{dx} \cosh x = \sinh x$
- $\frac{d}{dx} \coth x = -\text{csch}^2 x$
- $\frac{d}{dx} \text{csch} x = -\text{csch} x \coth x$
- $\frac{d}{dx} \sinh^{-1} x = \frac{1}{\sqrt{1+x^2}}$
- $\frac{d}{dx} \tanh^{-1} x = \frac{1}{1-x^2}$
- $\frac{d}{dx} \text{sech}^{-1} x = \frac{-1}{x\sqrt{1-x^2}}$
- $\frac{d}{dx} \cosh^{-1} x = \frac{1}{\sqrt{x^2-1}}$
- $\frac{d}{dx} \coth^{-1} x = \frac{1}{1-x^2}$
- $\frac{d}{dx} \text{csch}^{-1} x = \frac{-1}{x\sqrt{1+x^2}}$

Some Important Integrals

- $\int x^n dx = \frac{x^{n+1}}{n+1}$
- $\int (ax+b)^n dx = \frac{(ax+b)^{n+1}}{a(n+1)}$
- $\int \frac{1}{x} dx = \ln|x|$
- $\int \frac{1}{ax+b} dx = \frac{\ln|ax+b|}{a}$
- $\int e^x dx = e^x$
- $\int e^{(ax+b)} dx = \frac{e^{(ax+b)}}{a}$
- $\int a^x dx = \frac{a^x}{\ln a}$
- $\int \sin x dx = -\cos x$
- $\int \cos x dx = \sin x$
- $\int \sec^2 x dx = \tan x$
- $\int \csc^2 x dx = -\cot x$
- $\int \sec x \tan x dx = \sec x$
- $\int \csc x \cot x dx = -\csc x$
- $\int \tan x dx = \ln|\sec x|$
- $\int \cot x dx = \ln|\sin x|$
- $\int \sec x dx = \ln|\sec x + \tan x|$
- $\int \csc x dx = \ln|\csc x - \cot x|$
- $\int \frac{dx}{\sqrt{a^2-x^2}} = \sin^{-1} \frac{x}{a}$ or $-\cos^{-1} \frac{x}{a}$
- $\int \frac{dx}{a^2+x^2} = \frac{1}{a} \tan^{-1} \frac{x}{a}$ or $-\frac{1}{a} \cot^{-1} \frac{x}{a}$
- $\int \frac{dx}{x\sqrt{x^2-a^2}} = \frac{1}{a} \sec^{-1} \frac{x}{a}$ or $-\frac{1}{a} \csc^{-1} \frac{x}{a}$
- $\int \frac{dx}{x^2-a^2} = \frac{1}{2a} \ln \left| \frac{a+x}{a-x} \right|$
- $\int \frac{dx}{x^2-a^2} = \frac{1}{2a} \ln \left| \frac{x-a}{x+a} \right|$
- $\int \frac{1}{\sqrt{x^2+a^2}} dx = \ln|x + \sqrt{x^2+a^2}|$
- $\int \frac{1}{\sqrt{x^2-a^2}} dx = \ln|x + \sqrt{x^2-a^2}|$
- $\int \sqrt{a^2-x^2} dx = \frac{x\sqrt{a^2-x^2}}{2} + \frac{a^2}{2} \sin^{-1} \left(\frac{x}{a} \right)$

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1. $\int u^a$	11. $\int \frac{1}{\sqrt{1-u^2}}$
2. $\int u^a \ln u$	12. $\int \frac{u}{\sqrt{1-u^2}}$
3. $\int u^a \sqrt{1-u^2}$	13. $\int \frac{u}{\sqrt{1-u^2}}$
4. $\int \frac{u}{\sqrt{1-u^2}}$	14. $\int \frac{u^2}{\sqrt{1-u^2}}$
5. $\int \frac{u^2}{\sqrt{1-u^2}}$	15. $\int \frac{u^3}{\sqrt{1-u^2}}$
6. $\int \frac{u^3}{\sqrt{1-u^2}}$	16. $\int \frac{u^4}{\sqrt{1-u^2}}$
7. $\int \frac{u^4}{\sqrt{1-u^2}}$	17. $\int \frac{u^5}{\sqrt{1-u^2}}$
8. $\int \frac{u^5}{\sqrt{1-u^2}}$	18. $\int \frac{u^6}{\sqrt{1-u^2}}$
9. $\int \frac{u^6}{\sqrt{1-u^2}}$	19. $\int \frac{u^7}{\sqrt{1-u^2}}$
10. $\int \frac{u^7}{\sqrt{1-u^2}}$	20. $\int \frac{u^8}{\sqrt{1-u^2}}$
11. $\int \frac{u^8}{\sqrt{1-u^2}}$	21. $\int \frac{u^9}{\sqrt{1-u^2}}$
12. $\int \frac{u^9}{\sqrt{1-u^2}}$	22. $\int \frac{u^{10}}{\sqrt{1-u^2}}$
13. $\int \frac{u^{10}}{\sqrt{1-u^2}}$	23. $\int \frac{u^{11}}{\sqrt{1-u^2}}$
14. $\int \frac{u^{11}}{\sqrt{1-u^2}}$	24. $\int \frac{u^{12}}{\sqrt{1-u^2}}$
15. $\int \frac{u^{12}}{\sqrt{1-u^2}}$	25. $\int \frac{u^{13}}{\sqrt{1-u^2}}$
16. $\int \frac{u^{13}}{\sqrt{1-u^2}}$	26. $\int \frac{u^{14}}{\sqrt{1-u^2}}$
17. $\int \frac{u^{14}}{\sqrt{1-u^2}}$	27. $\int \frac{u^{15}}{\sqrt{1-u^2}}$
18. $\int \frac{u^{15}}{\sqrt{1-u^2}}$	28. $\int \frac{u^{16}}{\sqrt{1-u^2}}$
19. $\int \frac{u^{16}}{\sqrt{1-u^2}}$	29. $\int \frac{u^{17}}{\sqrt{1-u^2}}$
20. $\int \frac{u^{17}}{\sqrt{1-u^2}}$	30. $\int \frac{u^{18}}{\sqrt{1-u^2}}$

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