
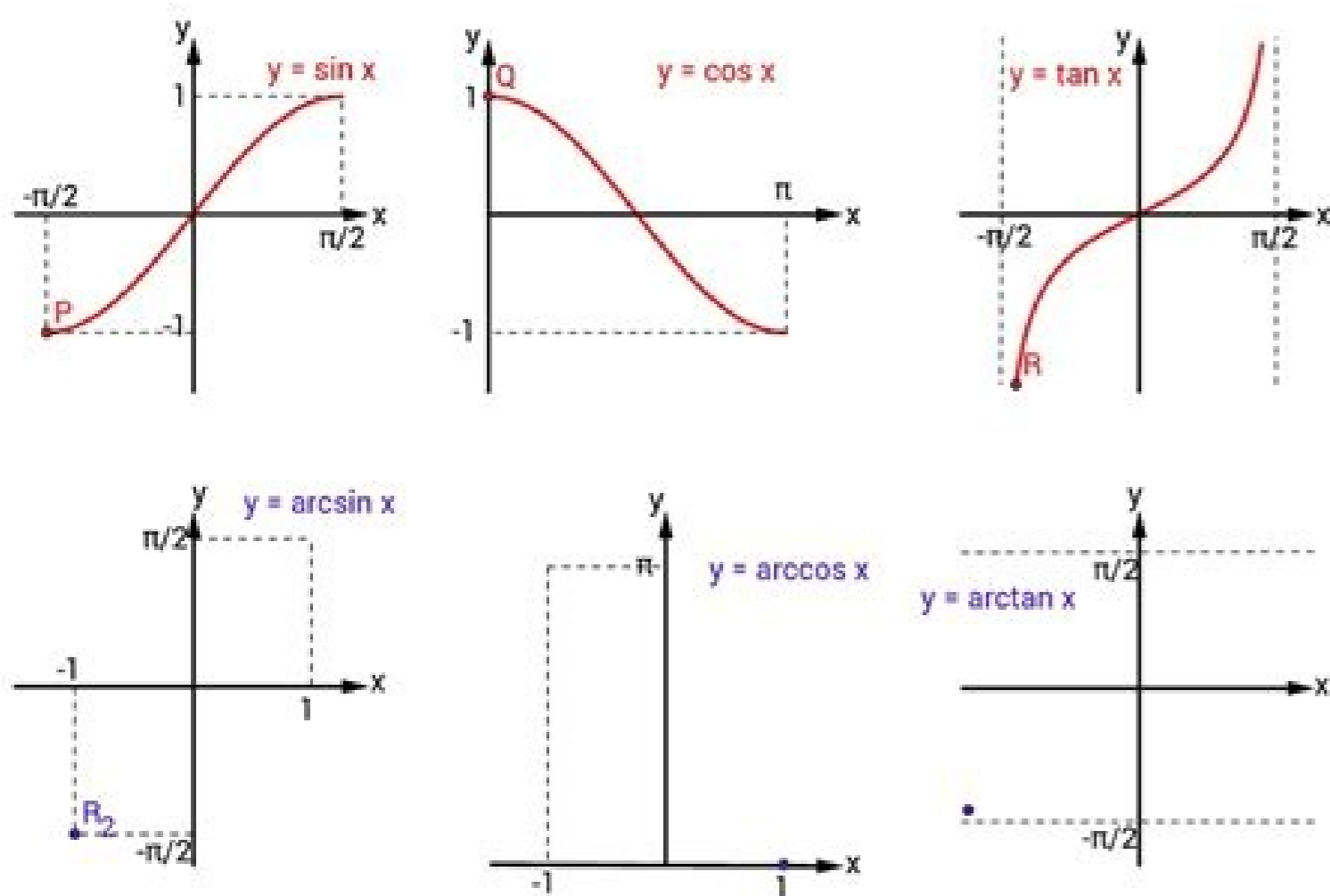


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1. $\int du = u + C$	13. $\int \cot u \, du = \ln \sin u + C$ $= -\ln \csc u + C$
2. $\int k \, du = ku + C$ (any number k)	14. $\int e^u \, du = e^u + C$
3. $\int (du + dv) = \int du + \int dv$	15. $\int a^u \, du = \frac{a^u}{\ln a} + C$ ($a > 0, a \neq 1$)
4. $\int u^n \, du = \frac{u^{n+1}}{n+1} + C$ ($n \neq -1$)	16. $\int \sinh u \, du = \cosh u + C$
5. $\int \frac{du}{u} = \ln u + C$	17. $\int \cosh u \, du = \sinh u + C$
6. $\int \sin u \, du = -\cos u + C$	18. $\int \frac{du}{\sqrt{a^2 - u^2}} = \sin^{-1} \left(\frac{u}{a} \right) + C$
7. $\int \cos u \, du = \sin u + C$	19. $\int \frac{du}{a^2 + u^2} = \frac{1}{a} \tan^{-1} \left(\frac{u}{a} \right) + C$
8. $\int \sec^2 u \, du = \tan u + C$	20. $\int \frac{du}{u\sqrt{u^2 - a^2}} = \frac{1}{a} \sec^{-1} \left \frac{u}{a} \right + C$
9. $\int \csc^2 u \, du = -\cot u + C$	21. $\int \frac{du}{\sqrt{a^2 + u^2}} = \sinh^{-1} \left(\frac{u}{a} \right) + C$ ($a > 0$)
10. $\int \sec u \tan u \, du = \sec u + C$	22. $\int \frac{du}{\sqrt{u^2 - a^2}} = \cosh^{-1} \left(\frac{u}{a} \right) + C$ ($u > a > 0$)
11. $\int \csc u \cot u \, du = -\csc u + C$	
12. $\int \tan u \, du = -\ln \cos u + C$ $= \ln \sec u + C$	



S. No.	Function	Substitution
(i)	$(a^2 + x^2), \sqrt{x^2 + a^2}, \frac{1}{\sqrt{x^2 + a^2}}$	$x = a \tan \theta$ or $a \cot \theta$ or $a \sinh \theta$
(ii)	$(a^2 - x^2), \sqrt{a^2 - x^2}, \frac{1}{\sqrt{a^2 - x^2}}$	$x = a \sin \theta$ or $a \cos \theta$
(iii)	$(x \pm \sqrt{x^2 \pm a^2})^n$	expression inside the bracket = t
(iv)	$\frac{2x}{a^2 - x^2}, \frac{2x}{a^2 + x^2}, \frac{a^2 - x^2}{a^2 + x^2}$	$x = a \tan \theta$
(v)	$\frac{1}{(x+a)^{-1-\frac{1}{n}}(x+b)^{1+\frac{1}{n}}}$ ($n \in \mathbb{N}, n > 1$)	$\frac{x+a}{x+b} = t$
(vi)	$(x^2 - a^2), \sqrt{x^2 - a^2}, \frac{1}{\sqrt{x^2 - a^2}}$	$x = a \sec \theta$ or $a \operatorname{cosec} \theta$ or $a \cosh \theta$
(vii)	$\sqrt{\frac{a-x}{a+x}}$ or $\sqrt{\frac{a+x}{a-x}}$	$x = a \cos 2\theta$
(viii)	$\sqrt{\frac{x-\alpha}{\beta-x}}$ or $\sqrt{(x-\alpha)(\beta-x)}$	$x = \alpha \cos^2 \theta + \beta \sin^2 \theta$
(ix)	$\sqrt{2ax - x^2}$	$x = a(1 - \cos \theta)$
(x)	$\sqrt{\frac{x}{a+x}}, \sqrt{\frac{a+x}{x}}, \sqrt{x(a+x)}$	$x = a \tan^2 \theta$ or $a \cot^2 \theta$
(xi)	$\sqrt{\frac{x}{a-x}}, \sqrt{\frac{a-x}{x}}, \sqrt{x(a-x)}, \frac{1}{\sqrt{x(a-x)}}$	$x = a \sin^2 \theta$ or $a \cos^2 \theta$
(xii)	$\sqrt{\frac{x}{x-a}}, \sqrt{\frac{x-a}{x}}, \sqrt{x(x-a)}, \frac{1}{\sqrt{x(x-a)}}$	$x = a \sec^2 \theta$ or $a \operatorname{cosec}^2 \theta$

$$\int \operatorname{arsinh} \left(\frac{x}{c} \right) dx = x \operatorname{arsinh} \left(\frac{x}{c} \right) - \sqrt{x^2 + c^2}$$

$$\int \operatorname{arcosh} \left(\frac{x}{c} \right) dx = x \operatorname{arcosh} \left(\frac{x}{c} \right) - \sqrt{x^2 - c^2}$$

$$\int \operatorname{artanh} \left(\frac{x}{c} \right) dx = x \operatorname{artanh} \left(\frac{x}{c} \right) + \frac{c}{2} \ln |c^2 - x^2| \quad (\text{for } |x| < |c|)$$

$$\int \operatorname{arcoth} \left(\frac{x}{c} \right) dx = x \operatorname{arcoth} \left(\frac{x}{c} \right) + \frac{c}{2} \ln |x^2 - c^2| \quad (\text{for } |x| > |c|)$$

$$\int \operatorname{arsech} \left(\frac{x}{c} \right) dx = x \operatorname{arsech} \left(\frac{x}{c} \right) - c \arctan \frac{x \sqrt{\frac{c-x}{c+x}}}{x-c} \quad (\text{for } x \in (0, c))$$

$$\int \operatorname{arsch} \left(\frac{x}{c} \right) dx = x \operatorname{arsch} \left(\frac{x}{c} \right) + c \ln \frac{x + \sqrt{x^2 + c^2}}{c} \quad (\text{for } x \in (0, c))$$

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