

$$1. \int dx = x + C$$

$$2. \int x^n dx = \frac{x^{n+1}}{n+1} + C$$

$$3. \int v^n dv = \frac{v^{n+1}}{n+1} + C$$

$$4. \int \frac{dv}{v} = \ln v + C$$

$$5. \int e^v dv = e^v + C$$

$$6. \int a^v dv = \frac{a^v}{\ln a} + C$$

$$7. \int \operatorname{sen} v dv = -\cos v + C$$

$$8. \int \cos v dv = \operatorname{sen} v + C$$

$$9. \int \tan v dv = -\ln|\cos v| + C$$

$$10. \int \cot v dv = \ln|\operatorname{sen} v| + C$$

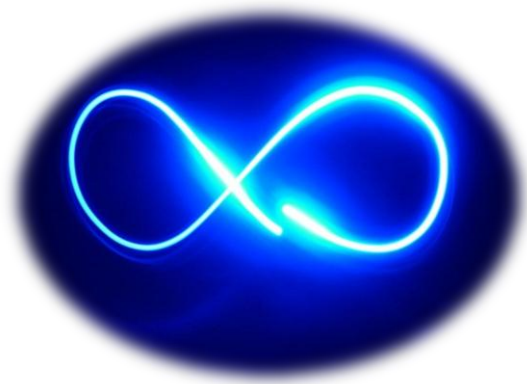
$$11. \int \sec v dv = \ln|\sec v + \tan v| + C$$

$$12. \int \csc v dv = \ln|\csc v - \cot v| + C$$

$$13. \int \sec^2 v dv = \tan v + C$$

$$14. \int \csc^2 v dv = -\cot v + C$$

$$15. \int \sec v \cdot \tan v dv = \sec v + C$$



$$16. \int \csc v \cdot \cot v \, dv = -\csc v + C$$

$$17. \int \frac{dv}{v^2 + a^2} = \frac{1}{a} \operatorname{arc tan} \frac{v}{a}$$

$$18. \int \frac{dv}{v^2 - a^2} = \frac{1}{2a} \ln \left| \frac{v - a}{v + a} \right| + C$$

$$19. \int \frac{dv}{a^2 - v^2} = \frac{1}{2a} \ln \left| \frac{v + a}{v - a} \right| + C$$

$$20. \int \frac{dv}{\sqrt{v^2 \pm a^2}} = \ln \left| v + \sqrt{v^2 \pm a^2} \right| + C$$

$$21. \int \frac{dv}{\sqrt{a^2 - v^2}} = \operatorname{arc sen} \frac{v}{a} + C$$

$$22. \int \frac{dv}{v\sqrt{v^2 - a^2}} = \frac{1}{a} \operatorname{arc sec} \frac{v}{a} + C$$

$$23. \int \sqrt{v^2 \pm a^2} \, dv = \frac{v}{2} \sqrt{v^2 \pm a^2} \pm \frac{a^2}{2} \ln \left| v + \sqrt{v^2 \pm a^2} \right| + C$$

$$24. \int \sqrt{a^2 - v^2} \, dv = \frac{v}{2} \sqrt{a^2 - v^2} + \frac{a^2}{2} \operatorname{arc sen} \frac{v}{a} + C$$