

## 9.5 Integrals of Hyperbolic Functions

$$1001. \int \sinh x dx = \cosh x + C$$

$$1002. \int \cosh x dx = \sinh x + C$$

$$1003. \int \tanh x dx = \ln \cosh x + C$$

$$1004. \int \coth x dx = \ln |\sinh x| + C$$

$$1005. \int \operatorname{sech}^2 x dx = \tanh x + C$$

$$1006. \int \operatorname{csch}^2 x dx = -\coth x + C$$

$$1007. \int \operatorname{sech} x \tanh x dx = -\operatorname{sech} x + C$$

$$1008. \int \operatorname{csch} x \coth x dx = -\operatorname{csch} x + C$$