$$\int \operatorname{sech}^2 u \frac{du}{dx} = \tanh u + C$$

$$\int \operatorname{cosech}^2 u \frac{du}{dx} = -\coth u + C$$

$$\int \frac{1}{\sqrt{u^2+1}} \frac{du}{dx} = \operatorname{arsinh} u + C$$

$$\int \frac{1}{\sqrt{u^2-1}} \frac{du}{dx} = \operatorname{arcosh} u + C$$

$$\int \frac{1}{1-u^2} \frac{du}{dx} = \operatorname{artanh} u + C$$

$$\int \frac{1}{1-u^2} \frac{du}{dx} = \operatorname{arcoth} u + C$$