

## 0.1 Other functions

### 0.1.1 Reciprocal trigonometric functions

Standard

$$\csc(\theta) := \frac{1}{\sin(\theta)}$$

$$\sec(\theta) := \frac{1}{\cos(\theta)}$$

$$\cot(\theta) := \frac{1}{\tan(\theta)}$$

Hyperbolic

$$\operatorname{csch}(\theta) := \frac{1}{\sinh(\theta)}$$

$$\operatorname{sech}(\theta) := \frac{1}{\cosh(\theta)}$$

$$\operatorname{coth}(\theta) := \frac{1}{\tanh(\theta)}$$

### 0.1.2 Inverse trigonometric functions

Reciprocal standard

$$\csc(\operatorname{arccsc}(\theta)) := \theta$$

$$\sec(\operatorname{arcsec}(\theta)) := \theta$$

$$\cot(\operatorname{arccot}(\theta)) := \theta$$

Reciprocal hyperbolic

$$\operatorname{csch}(\operatorname{arccsch}(\theta)) := \theta$$

$$\operatorname{sech}(\operatorname{arcsech}(\theta)) := \theta$$

$$\operatorname{coth}(\operatorname{arccoth}(\theta)) := \theta$$