

The Reciprocal Trig Ratios

*In addition to the three trig ratios covered so far (sine, cosine, and tangent), there are three other trig ratios that are reciprocals of each of these ratios.

*They are:

$$\text{Cosecant} = \frac{\textit{hypotenuse}}{\textit{opposite}}$$

This ratio (abbreviated csc) is the reciprocal of the sine function.

$$\text{Cotangent} = \frac{\textit{adjacent}}{\textit{opposite}}$$

This ratio (abbreviated cot) is the reciprocal of the tangent function.

$$\text{Secant} = \frac{\textit{hypotenuse}}{\textit{adjacent}}$$

This ratio (abbreviated sec) is the reciprocal of the cosine function.