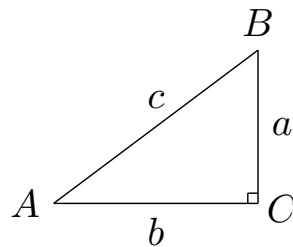


$$\sin(A) = \frac{\text{opposite of } A}{\text{hypotenuse}} \qquad \csc(A) = \frac{1}{\sin(A)}$$

$$\cos(A) = \frac{\text{adjacent of } A}{\text{hypotenuse}} \qquad \sec(A) = \frac{1}{\cos(A)}$$

$$\tan(A) = \frac{\text{opposite of } A}{\text{adjacent of } A} \qquad \cot(A) = \frac{1}{\tan(A)}$$



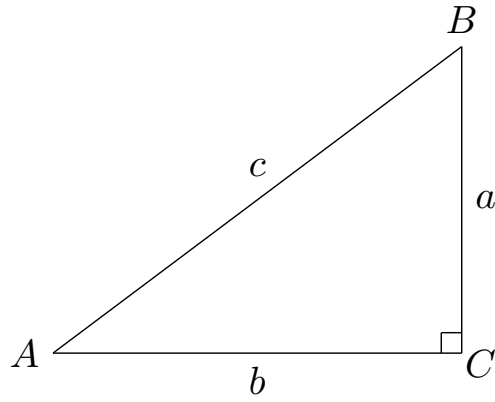
$$a^2 + b^2 = c^2 \quad A + B = 90^\circ$$

$$\sin(A) = \frac{a}{c} \qquad \cos(A) = \frac{b}{c} \qquad \tan(A) = \frac{a}{b}$$

$$\csc(A) = \frac{c}{a} \qquad \sec(A) = \frac{c}{b} \qquad \cot(A) = \frac{b}{a}$$

$$\sin(B) = \frac{b}{c} \qquad \cos(B) = \frac{a}{c} \qquad \tan(B) = \frac{b}{a}$$

$$\csc(B) = \frac{c}{b} \qquad \sec(B) = \frac{c}{a} \qquad \cot(B) = \frac{a}{b}$$



$$A = \sin^{-1} \left(\frac{a}{c} \right) = \cos^{-1} \left(\frac{b}{c} \right) = \tan^{-1} \left(\frac{a}{b} \right)$$

$$B = \sin^{-1} \left(\frac{b}{c} \right) = \cos^{-1} \left(\frac{a}{c} \right) = \tan^{-1} \left(\frac{b}{a} \right)$$