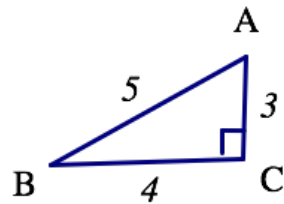


$$\tan x = \frac{\sin x}{\cos x}$$



$$\sin B = 3/5$$

$$\cos B = 4/5$$

$$\tan B = 3/4$$

$$\sin A = 4/5$$

$$\cos A = 3/5$$

$$\tan A = 4/3$$

$\tan B = \frac{3}{4}$ , placing the  $\frac{\sin B}{\cos B} = \frac{\frac{3}{5}}{\frac{4}{5}} = \frac{3}{4}$ , the same as the  $\tan B$ . Therefore, we can have the identity:

$$\tan B = \frac{\sin B}{\cos B}$$