

Answer on Question #51809 – Math – Trigonometry

Deduce the identity of $(\tan A)(\cot A)$.

Solution

We know that

$$\tan A = \frac{\sin A}{\cos A}; \quad \cot A = \frac{\cos A}{\sin A}.$$

Hence

$$(\tan A)(\cot A) = \frac{\sin A}{\cos A} \cdot \frac{\cos A}{\sin A} = 1$$

Answer: 1.