

## Answer on Question #58235 – Math – Trigonometry

### Question

$$\cot^2 x - \cot^2 x \cdot \cos^2 x$$

### Solution

$$\cot^2 x - \cot^2 x \cdot \cos^2 x = \cot^2 x(1 - \cos^2 x) = \cot^2 x \cdot \sin^2 x = \frac{\cos^2 x}{\sin^2 x} \cdot \sin^2 x = \cos^2 x.$$

**Answer:**  $\cos^2 x$ .