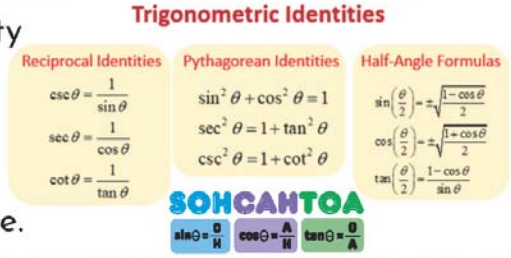
Name : Class :

Trigonometric Identities

A Trigonometric Identity is an equation involving the trigonometric functions that holds for all values of the variable.



ind the values of following using trigonometric identities

1) $\frac{\tan^2 t + 1}{1 + \cot^2 t}$

tan² t

2) $\frac{\sec t \tan t}{\tan^2 t + 1}$

sin t

3) $\frac{1}{\sec t - \tan t} - \frac{1}{\sec t + \tan t}$

2 tan t

4) $\frac{\sin^2 t \cot^2 t}{1 - \sin^2 t}$

1

5) $\sec t \tan t \cos t$

tan t

6) $\frac{\cos^2 t - 1}{\cos^2 t \tan^2 t}$

-1