Name _____ Date _____ Block _____

Verifying Trig Identities

1) $\frac{\cos^2 x}{\csc x} = \frac{\sin x}{\sec^2 x}$

2) $\frac{\tan x + 1}{\sec x} = \cos x + \sin x$

3) $\frac{1}{\tan^2 x \cot x} = \cot^2 x \tan x$

4) $\frac{\sec x + 1}{\sec x} = 1 + \cos x$

5) $\frac{\csc x}{\sec^2 x \cot x} = \cos x$

6) $-\csc x \cos x = -\cot x$

7) $\frac{\csc^2 x}{\tan^2 x} = \frac{\cot^2 x}{\sin^2 x}$

8) $\frac{\csc x - \cot^2 x}{\csc^2 x} = \sin x - \cos^2 x$

9) $\csc^2 x + \sec^2 x = \frac{\csc^2 x}{\cos^2 x}$

10) $\frac{\csc^2 x - 1}{\cos x} = \frac{\sec x}{\tan^2 x}$