

Name: _____ Date: 10/20/25

Session 10 :

Warm up: Write all of your trig
expressions (you can also write any other
helpful info)

I'll start: $\sin^2 \theta + \cos^2 \theta = 1$

1. prove that $\cot(x) + \tan(x) = \sec(x)\csc(x)$

2. prove that $\frac{\sin\theta}{1+\cos\theta} + \frac{1+\cos\theta}{\sin\theta} = 2\csc$

3. prove that $\cos x + \sin x \tan x = \sec x$

Now we're going to write our additive and subtractive property formulas here ↓

4. Find the exact value of $\sin 75$
(having a unit circle is very helpful)

5. Find $\tan 105$ (there are many right
processes. Just make sure
your answer matches
in the calculator!!)