Accel Precalc <u>Handout: Verify Trig Identities</u> Name				ame	
	Trig Identities				
Lesson	2: Verify Trig I	dentities			
EO:					
EQ:					
55441		10.1			
RECALL	.: Reciprocal a	ınd Pythagorean Identit	ies		
•	Reciprocal Id	entities			
	·				
•	Pythagorean I	Identities			
*	Co-Function I	dentities			
•	CO-1 unction 1	denimes			
*	Stane to Vari	fy Trig Identities:			
*	Steps to vert	ly frig Identifies.			
<ul> <li>Algebraically one</li> </ul>		of the	to make it	other	
	·				
Algebraically		both	of the	to make them _	

like each \_\_\_\_\_.

- \* RULES:
- Cannot \_\_\_\_\_ values from one side of \_\_\_\_\_ to the other. This would imply the statement is \_\_\_\_\_ --- that is what you are trying to \_\_\_\_\_.
- Use trig identities to \_\_\_\_\_ one or both \_\_\_\_\_ of the expressions until the statement is \_\_\_\_\_.
- Ex. Use trig identities to verify these statements.

1. 
$$\tan^2 \theta + \cos^2 \theta + \frac{1}{\csc^2 \theta} = \sec^2 \theta$$

2. 
$$\sec \beta \csc \beta = \tan \beta + \cot \beta$$

3. 
$$\frac{1 + \tan \theta}{1 + \cot \theta} = \tan \theta$$

4. 
$$\frac{\sin \theta}{1 + \cos \theta} + \frac{1 + \cos \theta}{\sin \theta} = 2 \csc \theta$$

5. 
$$\frac{\tan \beta + \cot \beta}{\sec \beta \csc \beta} = 1$$

6. 
$$\frac{1-\sin\theta}{\cos\theta} = \frac{\cos\theta}{1+\sin\theta}$$

Assignment: Worksheet #1 Verifying Trig Identities

Worksheet #2 Verifying Trig Identities