

Verifying Trig Equation Test Help Session (Unit 4A) WS #3

1)

$$\sec x - \tan x \sin x = \frac{1}{\sec x}$$

2)

$$\frac{\sec \theta}{\cos \theta} - \frac{\tan \theta}{\cot \theta} = 1$$

3)

$$\cos^2 y - \sin^2 y = 1 - 2\sin^2 y$$

4)

$$\csc^2 \theta \tan^2 \theta - 1 = \tan^2 \theta$$

5)

$$(\sin \theta + \cos \theta)^2 + (\sin \theta - \cos \theta)^2 = 2$$

6)

$$\frac{\cos x + 1}{\sin^3 x} = \frac{\csc x}{1 - \cos x}$$

7)

$$\sec 2x = \frac{1}{1 - 2\sin^2 x}$$

8)

$$\frac{\cot^2 x - 1}{\csc^2 x} = \cos 2x$$