

Group Work - Worksheet

$$\#1) \sin u \csc u - \cos^2 u = \sin^2 u$$

$$\#2) 1 - \frac{\sin^2 \theta}{1 - \cos \theta} = -\cos \theta$$

$$\#3) \frac{\cos \theta}{1 - \tan \theta} + \frac{\sin \theta}{1 - \cot \theta} = \sin \theta + \cos \theta$$

$$\#4) \tan^2 \theta \cos^2 \theta + \cot^2 \theta \sin^2 \theta = 1$$

$$\#5) \frac{1 - \tan^2 \theta}{1 + \tan^2 \theta} + 1 = 2 \cos^2 \theta$$

$$\#6) \sec \theta - \cos \theta = \sin \theta + \tan \theta$$

$$\#7) \frac{1}{1 - \sin \theta} + \frac{1}{1 + \sin \theta} = 2 \sec^2 \theta$$

$$\#8) 9 \sec^2 \theta - 5 \tan^2 \theta = 5 + 4 \sec^2 \theta$$

$$\#9) \frac{(\sec v - \tan v)^2 + 1}{\csc v (\sec v - \tan v)} = 2 \tan v$$

$$\#10) \frac{\sin^3 \theta + \cos^3 \theta}{\sin \theta + \cos \theta} = 1 - \sin \theta \cos \theta$$