

Name: _____ Period: _____

Trigonometry Identity Quiz

1) $\cos\left(\frac{\pi}{2} - \theta\right) =$ _____

2) $\sin(\alpha - \beta) =$ _____

3) $\sin^2 \theta + \cos^2 \theta =$ _____

4) $1 + \tan^2 \theta =$ _____

5) $2 \sin x \cos x =$ _____

6) $\frac{\cos \theta}{\sin \theta} =$ _____

7) $\cos \alpha \cos \beta + \sin \alpha \sin \beta =$ _____

8) $\frac{1}{\cot \theta} =$ _____

9) $\cos^2 \theta - \sin^2 \theta =$ _____

10) $\cos(-\theta) =$ _____

11) $\sin(-\alpha) =$ _____

12) $\tan(-\theta) =$ _____

$$13) \sec(-\theta) = \underline{\hspace{2cm}}$$

$$14) \frac{\sin \theta}{\cos \theta} = \underline{\hspace{2cm}}$$

$$15) 1 + \cot^2 \theta = \underline{\hspace{2cm}}$$

$$16) \sin\left(\frac{\pi}{2} - \theta\right) = \underline{\hspace{2cm}}$$

$$17) \sec\left(\frac{\pi}{2} - \theta\right) = \underline{\hspace{2cm}}$$

$$18) \csc(-\theta) = \underline{\hspace{2cm}}$$

$$19) \frac{1}{\sin \theta} = \underline{\hspace{2cm}}$$

$$20) \frac{1}{\cos \theta} = \underline{\hspace{2cm}}$$

$$21) \frac{\tan \alpha + \tan \beta}{1 - \tan \alpha \tan \beta} = \underline{\hspace{2cm}}$$

$$22) \csc^2 \theta - \cot^2 \theta = \underline{\hspace{2cm}}$$

$$23) 1 - \sin^2 \theta = \underline{\hspace{2cm}}$$

Bonus: Use the correct Formula to find

$$\sin(15^\circ) =$$

$$\cos(75^\circ) =$$