

HW Review 8.2

Classwork: Ditto I

Homework: Ditto II (graded)

Quiz tomorrow

Adv. Alg.-Trig.
Homework #8.2

1) $\cos x \csc x = \cot x$

$$\frac{\cos x}{1} \cdot \frac{1}{\sin x} = \frac{\cos x}{\sin x}$$

$$\frac{\cos x}{\sin x} = \frac{\cos x}{\sin x}$$

✓

2) $\tan^2 x = \sec^2 x - \cos x \sec x$

$$\begin{array}{l} \checkmark \\ \sec^2 x - 1 \\ \tan^2 x \\ \checkmark \end{array}$$

3) $\cot^2 x = \csc^2 x - \sin^2 x - \cos^2 x$

$$\frac{\cos^2 x}{\sin^2 x} \quad \left| \quad \begin{array}{l} \csc^2 x - (\sin^2 x + \cos^2 x) \\ \csc^2 x - 1 \\ \cot^2 x \end{array} \right.$$

↓

$$= \frac{\cos^2 x}{\sin^2 x}$$

✓

4) $\tan^2 x = (\sec x - 1)(\sec x + 1)$

$$\begin{array}{l} \sec^2 x - 1 \\ \tan^2 x \end{array}$$

$$\begin{array}{lcl}
 5) (\sin \theta - \cos \theta)^2 & = & 1 - 2\sin \theta \cos \theta \\
 (\sin \theta - \cos \theta)(\sin \theta - \cos \theta) & & \\
 \sin^2 \theta - 2\sin \theta \cos \theta + \cos^2 \theta & & \\
 1 - 2\sin \theta \cos \theta & &
 \end{array}$$

$$6) \sin^2 G$$

$$7) \sin^2 \theta$$

$$\sin^2 x + \cos^2 x = 1$$

Classwork Ditto 1

HW Ditto II

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