

Trigonometry/Precalculus

Chapter 5 Extra Review

Day _____

Name _____

Date _____

Block _____

1) Use identities to simplify the expression into a single trig function.

$$\frac{\cos^2 x}{\cot^2 x}$$

2) Solve for x for values between $[0, 2\pi)$.

$$\tan^2 x + \tan x = 0$$

Verify the following identity: (show that one side can be transformed into the other)

$$3) \sin \theta \cos \theta = \frac{1}{2} \sin 2\theta$$

Solve the following equations for the given intervals:

4) $\sin^2 \theta - 1 = 0$ for all values of x .

5) $\sec^2 \theta + \sec \theta - 2 = 0$ for x between $[0, 2\pi)$

Given $\sin u = -\frac{4}{5}$ and $\frac{3\pi}{2} \leq u \leq 2\pi$, find each of the following:

6) $\cos 2u$

7) $\tan \frac{u}{2}$

