

PRECALCULUS
5.3 Worksheet #3

Name_____

Period_____

Solve:

1. $2 \sin\left(\frac{x}{2}\right) - 1 = 0 \quad (0, 2\pi]$

2. $2 \cos^2 x - \cos x - 1 = 0 \quad (0, 2\pi]$

3. $\tan^2 2x - 1 = 0$

4. $2 \cos^2 4x - 1 = 0$

5. $\sec^4 x - 4 \sec^2 x = 0$

6. $\sin^2 2x + \sin 2x = 0 \quad (0, 2\pi]$

7. $2 \sin^2 x = 2 + \cos x$

8. $\tan^3 x - \tan^2 x + 3 \tan x - 3 = 0$

9. $\csc 2x - 2 = 0$