

Name: _____

Aim: Practice Solving Trigonometric Equations

Practice: Solve for all values of x in the interval $[0, 2\pi)$. Round to the nearest tenth.

1. $2 + 3\sin x = \cos 2x$

2. $\tan^2 x - 2\sec^2 x + 4 = 0$

3. $\tan^2 x + 2 + 2\tan x - 7 = 0$

4. $\cos 2x - \sin x = 1$

5. $4\sin^2 x = 2\cos x + 1$

6. $\sin x = \sin 2x$

7. $5\sin x + 2\cos 2x - 3 = 0$

8. $3\sec^2 x - 4 = 0$

9. $\tan x = -2\sin x$

10. $\cos 2x + 3\sin x = 2$

11. $\cot^2 x - \csc x = 1$

12. $3\sec x - \cos x - 2 = 0$