

NAME: _____

MATH IV - Chapter 5.3 Practice Exam

Solve each trigonometric equation for all solutions on $[0, 2\pi]$.

1. $5 = \sec^2 x + 3$
2. $9 + \sin^2 x = 10$
3. $\cos x - 4 = \sin x - 4$
4. $2 - 2 \cos^2 x = \sin x + 1$
5. $\cot^2 x \csc^2 x - \cot^2 x = 9$

Pythagorean Identities

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

$$1 + \cot^2 x = \csc^2 x$$

$$\tan^2 x + 1 = \sec^2 x$$

MATHguide.com

