

Math 3

Name \_\_\_\_\_

Solving Trig Equations

Date \_\_\_\_\_ Per \_\_\_\_\_

Solve each equation of the interval of  $[0, 360)$  or  $[0, 2\pi)$ .

1.  $2 \sin \theta - 1 = 0$

2.  $2 \cos 3\theta + 1 = 0$

3.  $\sin \theta + \sqrt{2} = -\sin \theta$

4.  $3 \tan^2 \theta - 1 = 0$

5.  $2 \sin^2 \theta - \sin \theta - 1 = 0$

6.  $\cos \theta \sin \theta - \sin \theta = 0$

$$7. 2\cos^2\theta - \cos\theta = 0$$

$$8. \sin^3\theta = \sin\theta$$

$$9. 4\sin 2\theta - 2 = 0$$

$$10. 4\sin^2\theta - 3 = 0$$

$$11. 3\tan^2\theta \sin\theta - \sin\theta = 0$$

$$12. 2\cos^2\theta - 5\cos\theta = 3$$