

Equations

Name \_\_\_\_\_

**Solve the equation over the interval  $[0, 2\pi)$ .**

1)  $2 \cos x - 1 = 0$

2)  $\csc x - 2 = 0$

3)  $3 \tan^2(2x) - 1 = 0$

4)  $2 \cos^2(4x) - 1 = 0$

5)  $2 \sin^2 x - \sin x - 1 = 0$

6)  $\sec^4 x - 4 \sec^2 x = 0$

7)  $2 \cos x + 1 = 0$

8)  $2 \sin x - 1 = 0$

$$9) \sqrt{3} \csc x - 2 = 0$$

$$10) \tan x + 1 = 0$$

$$11) 3 \sec^2 x - 4 = 0$$

$$12) \csc^2 x - 2 = 0$$

$$13) 2 \sin^2(2x) = 1$$

$$14) \tan^2(3x) = 3$$

$$15) 4 \sin^2 x - 3 = 0$$

$$16) \sin x(\sin x + 1) = 0$$