

Precalculus  
Trig Equations III (39)

Name \_\_\_\_\_ Period \_\_\_\_\_

Solve for  $x$  over the interval  $0 < x < 2\pi$ .

1.  $2 \sin^2 x = \sin x$

5.  $\sin x \cdot \cos x = 0$

2.  $3 \sin^2 x = \cos^2 x$

6.  $\cos x \cdot \tan x = 0$

3.  $2 \cos^2 x = \cos x$

7.  $2 \sin^2 x = \sin x + 1$

4.  $\sin^2 x - 3 \cos^2 x = 0$

8.  $2 \cos^2 x - \cos x = 1$

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9.  $2\sin^2 x = 9\sin x + 5$

13.  $\sin x = \cos x$

10.  $(4\cos^2 x - 1)(\cos^2 x - 1) = 0$

14.  $\sin x + \cos x = 0$

11.  $(2\sin^2 x - 1)(\sin^2 x - 1) = 0$

15.  $\sec x = \csc x$

12.  $(4\cos^2 x - 3)(\sin^2 x + 2) = 0$