

Precalculus  
Trig Equations - Review (41)

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

Find the values over the interval  $0 < x < 2\pi$ .

1.  $x = \arcsin\left(-\frac{\sqrt{3}}{2}\right)$

2.  $x = \cot^{-1}(-1)$

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

3.  $\cos x = -\frac{\sqrt{3}}{2}$

6.  $4 \tan x = 4$

4.  $\csc x = 2$

7.  $2 \tan x + 2\sqrt{3} = 0$

5.  $\sqrt{2} \sin x - 1 = 0$

8.  $\frac{1}{2} \csc x + 1 = 0$

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9.  $\sec x + 1 = 0$

14.  $\sin^2 x + 3\cos^2 x = 0$

10.  $\left(\frac{3}{5}\right)\cos x - 2 = 0$

15.  $(2\cos^2 x - 1)(2\sin^2 x - 1) = 0$

11.  $\tan^2 x - 3 = 0$

16.  $2\sin^2 x - 11\sin x - 6 = 0$

12.  $4\cos^2 x = 3$

17.  $\cot^2 x - 2\cot x + 1 = 0$

13.  $3\csc^2 x - 4 = 0$

18.  $2 - \sin x = 2\cos^2 x$