

Precalculus Unit 8 – 8.1 Homework
Solving Trigonometric Equations

Find all solutions on the interval $[0, 2\pi)$.

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

2. $\tan x = -\sqrt{3}$

3. $\sin x = \frac{\sqrt{3}}{2}$

4. $\sec \theta = -2$

Find all solutions.

5. $\sqrt{3} \sec \theta - 2 = 0$

6. $4 \cos^2 x - 1 = 0$

7. $(3 \tan^2 x - 1)(\tan^2 x - 3) = 0$

8. $3 \tan^3 x = \tan x$

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

10. $2 \cos^2 x + \cos x - 1 = 0$