

Solve the equation on the interval of $[0, 2\pi]$

1. $\cos 2\theta = -\frac{1}{2}$

2. $\tan 2\theta = -1$

3. $\sec \frac{3\theta}{2} = -2$

4. $\cot \frac{2\theta}{3} = -\sqrt{3}$

5. $\cos \left(2\theta - \frac{\pi}{2}\right) = -1$

6. $\sin \left(3\theta + \frac{\pi}{18}\right) = 1$

7. $\tan \left(\frac{\theta}{2} + \frac{\pi}{3}\right) = 1$

Use a calculator to solve each equation on the interval of $[0, 2\pi]$.

8. $\tan \theta = 5$

9. $\cos \theta = -0.9$

10. $\sin \theta = -0.2$

11. $\csc \theta = -3$