

## Solving Trig Equations WS #1

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Date\_\_\_\_\_ Period\_\_\_\_

**Solve each equation for  $0 \leq \theta < 360$ .**

1)  $0 = \cot \theta$

2)  $\frac{\sqrt{3}}{2} = \cos \theta$

3)  $-\frac{\sqrt{3}}{3} = \tan \theta$

4)  $0 = \tan \theta$

5)  $-\frac{2\sqrt{3}}{3} = \sec \theta$

6)  $\frac{2\sqrt{3}}{3} = \csc \theta$

7)  $\cot \theta = -\frac{\sqrt{3}}{3}$

8)  $-\frac{\sqrt{2}}{2} = \sin \theta$

Solve each equation for  $0 \leq \theta < 2\pi$ .

9)  $-1 = \csc \theta$

10)  $0 = \cot \theta$

11)  $\sin \theta = 1$

12)  $\sin \theta = \frac{\sqrt{3}}{2}$

13)  $-\frac{\sqrt{3}}{2} = \sin \theta$

14)  $\cos \theta = -\frac{1}{2}$

15)  $\frac{\sqrt{3}}{3} = \tan \theta$

16)  $\cot \theta = -\frac{\sqrt{3}}{3}$