

## Trig Equations WS 1

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**On separate paper, solve each equation for  $0 \leq \theta < 360$ .**

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

2)  $\sin \theta = \frac{1}{2}$

3)  $\cos \theta = 0$

4)  $-1 = \cos \theta$

5)  $\tan \theta = 1$

6)  $-\sqrt{3} = \cos \theta$

7)  $-3 + \tan \theta = \frac{-9 + \sqrt{3}}{3}$

8)  $0 = -3 \tan \theta$

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

10)  $-2 + \sin \theta = \frac{-4 + \sqrt{2}}{2}$

11)  $0 = -1 + \tan \theta$

12)  $-3 = -6 \sin \theta$

13)  $-3 = -3 + \tan \theta$

14)  $-2 = -1 + \cos \theta$

15)  $\frac{6 - \sqrt{2}}{2} = 3 - \cos \theta$

16)  $3 - 4 \sin \theta = -1$

17)  $-1 - \frac{1}{3} \cdot \sin \theta = -\frac{2}{3}$

18)  $-3 - \frac{2}{3} \cdot \sin \theta = -\frac{10}{3}$