## Trigonometry Worksheet 7

1. Solve 
$$2\sin\theta + 1 = 0$$
 for  $\theta \in [0, 2\pi)$ . 6. Solve  $\sin\theta = \sqrt{2} - \sin\theta$ .

6. Solve 
$$\sin \theta = \sqrt{2} - \sin \theta$$
.

2. Solve 
$$2\cos\theta = 1$$
 for  $\theta \in [0, 2\pi)$ .

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 for  $\theta \in [0, 2\pi)$ .

7. Solve  $2\cos^2\theta - 1 = \cos\theta$  for  $\theta \in [0, 2\pi)$ .

3. Solve 
$$2 \tan^2 \theta - 6 = 0$$
 for  $\theta \in [0, 2\pi)$ .

3. Solve 
$$2 \tan^2 \theta - 6 = 0$$
 for  $\theta \in [0, 2\pi)$ . 8. Solve  $2 \cos^2 \theta = \sin \theta + 1$  for  $\theta \in [0, 2\pi)$ .

4. Solve 
$$2\cos\theta = \sqrt{3}$$
 for  $\theta \in [0, 2\pi)$ .

9. Solve 
$$2\cos(2\theta) = 0$$
 for  $\theta \in [0, 2\pi)$ .

5. Solve 
$$\tan \theta + 2 = 1$$
.

10. Solve 
$$\sin(2\theta) = \frac{3}{2}$$
 for  $\theta \in [0, 2\pi)$ .

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