

## Solving Trigonometric Equations

Classify each of the following according to (i) the number of solutions, (ii) the number of solutions that must exist, (iii) the number of solutions that must exist, and (iv) the number of solutions that must exist.

State the number of solutions.	State the number of solutions.
$\sin \theta = \frac{1}{2}$ $\theta \in [0, 2\pi)$	$\sin \theta = \frac{1}{2}$ $\theta \in [0, 2\pi)$
$\sin \theta = \frac{1}{2}$ $\theta \in [0, 2\pi)$	$\sin \theta = \frac{1}{2}$ $\theta \in [0, 2\pi)$

By simplifying trigonometric equations and inequalities, all the trigonometric equations and inequalities can be reduced to the form  $\sin \theta = a$  or  $\cos \theta = a$  or  $\tan \theta = a$  or  $\sec \theta = a$  or  $\csc \theta = a$  or  $\cot \theta = a$ .

### 1. Solving trigonometric equations

Let  $\theta$  be an angle such that  $\theta \in [0, 2\pi)$ . Then  $\theta$  is a solution of the equation  $\sin \theta = a$  if and only if  $\theta = \arcsin a$  or  $\theta = \pi - \arcsin a$ .

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

$\theta \in [0, 2\pi)$   
 $\theta = \arcsin \frac{1}{2}$  or  $\theta = \pi - \arcsin \frac{1}{2}$   
 $\theta = \frac{\pi}{6}$  or  $\theta = \frac{5\pi}{6}$

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

$\theta \in [0, 2\pi)$   
 $\theta = \arcsin \frac{1}{2}$  or  $\theta = \pi - \arcsin \frac{1}{2}$   
 $\theta = \frac{\pi}{6}$  or  $\theta = \frac{5\pi}{6}$

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

$\theta \in [0, 2\pi)$   
 $\theta = \arcsin \frac{1}{2}$  or  $\theta = \pi - \arcsin \frac{1}{2}$   
 $\theta = \frac{\pi}{6}$  or  $\theta = \frac{5\pi}{6}$

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

$\theta \in [0, 2\pi)$   
 $\theta = \arcsin \frac{1}{2}$  or  $\theta = \pi - \arcsin \frac{1}{2}$   
 $\theta = \frac{\pi}{6}$  or  $\theta = \frac{5\pi}{6}$

### 2. Solving trigonometric inequalities

Let  $\theta$  be an angle such that  $\theta \in [0, 2\pi)$ . Then  $\theta$  is a solution of the inequality  $\sin \theta > a$  if and only if  $\theta \in (\arcsin a, \pi - \arcsin a)$ .

Let  $\theta$  be an angle such that  $\theta \in [0, 2\pi)$ .

- Classify each of the following according to (i) the number of solutions, (ii) the number of solutions that must exist, (iii) the number of solutions that must exist, and (iv) the number of solutions that must exist.

(1)  $\sin \theta > \frac{1}{2}$

$\theta \in [0, 2\pi)$   
 $\theta \in (\arcsin \frac{1}{2}, \pi - \arcsin \frac{1}{2})$   
 $\theta \in (\frac{\pi}{6}, \frac{5\pi}{6})$

(2)  $\sin \theta > \frac{1}{2}$

$\theta \in [0, 2\pi)$   
 $\theta \in (\arcsin \frac{1}{2}, \pi - \arcsin \frac{1}{2})$   
 $\theta \in (\frac{\pi}{6}, \frac{5\pi}{6})$

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