

1. Find the values for each of the following.

(a)  $\tan \frac{7\pi}{6}$

(b)  $\sin \left( -\frac{5\pi}{4} \right)$

(c)  $\cos \frac{2\pi}{3}$

2. Find all  $\theta$  in the interval  $[0, 2\pi]$  satisfying  $2 \cos \theta = -\sqrt{3}$ .

3. Find all  $\theta$  in the interval  $[0, 2\pi]$  satisfying  $2 \cos^2 \theta - 5 \cos \theta - 3 = 0$ .

1. Find the values  $\sin \theta$ ,  $\cos \theta$ , and  $\tan \theta$  for  $\theta = \frac{5\pi}{3}$ .
2. Find all  $\theta$  in the interval  $[0, 2\pi]$  satisfying  $2 \sin 2\theta = 1$ .
3. Find all  $\theta$  in the interval  $[0, 2\pi]$  satisfying  $4 \sin \theta \cos \theta + 2 \sin \theta - 2 \cos \theta - 1 = 0$ .

1. Find the values for each of the following.

(a)  $\cos \frac{11\pi}{3}$

(b)  $\tan \left( -\frac{7\pi}{4} \right)$

(c)  $\cos \frac{3\pi}{2}$

2. Find all  $\theta$  in the interval  $[0, 2\pi]$  satisfying  $2 \sin \frac{\theta}{3} = -\sqrt{2}$ .

3. Find all  $\theta$  in the interval  $[0, 2\pi]$  satisfying  $2 \cos^2 \theta = 1$ .