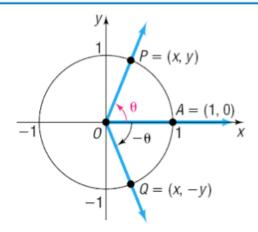
6 Use Even-Odd Properties to Find the Exact Values of the Trigonometric Functions

## **Even-Odd Properties**

$$\sin(-\theta) = -\sin \theta$$
  $\cos(-\theta) = \cos \theta$   $\tan(-\theta) = -\tan \theta$   
 $\csc(-\theta) = -\csc \theta$   $\sec(-\theta) = \sec \theta$   $\cot(-\theta) = -\cot \theta$ 



## **EXAMPLE**

## Finding Exact Values Using Even-Odd Properties

Find the exact value of:

(a) 
$$\cos (-60^{\circ})$$
 (b)  $\sin (-390^{\circ})$  (c)  $\tan \left(-\frac{37\pi}{4}\right)$ 

$$\cos 60^{\circ} - \sin 390^{\circ}$$
 $\cos \frac{\pi}{3} - \sin 30^{\circ}$