

**Warm up.**

Find the other five trig functions.

1.  $\csc \theta = -5, \frac{\pi}{2} < \theta < \frac{3\pi}{2}$

Find the exact values of each expression or state as undefined.

2. a.  $\sin 225^\circ$       b.  $\csc 225^\circ$

3. a.  $\csc \pi$       b.  $\tan \frac{2\pi}{3}$

## 7-6 The Inverse Trigonometric Functions

**Consider the graphs on p. 287**

Use a calculator to find the value to the nearest tenth of a degree and to the nearest hundredth of a radian.

1.  $\tan^{-1} \frac{7}{3}$

2.  $\cos^{-1}(-0.4)$

Without using a calculator, find the value of each expression in radians and degrees.

3.  $\cos^{-1} 0$

4.  $\tan^{-1} 1$

5.  $\sin^{-1} \left( \frac{1}{2} \right)$

