

Inverse Trigonometric Ratios

Name: _____

Date: _____

Find the value of each inverse trigonometric ratio in degrees.

1) $\cot^{-1}(\sqrt{3})$

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

3) $\sin^{-1}(0)$

4) $\tan^{-1}(0)$

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

6) $\cos^{-1}(0)$

7) $\tan^{-1}(\sqrt{3})$

8) $\sec^{-1}\left(\frac{2\sqrt{3}}{3}\right)$

9) $\sec^{-1}(2)$

Find the value of each inverse trigonometric ratio in radians.

1) $\cos^{-1}\left(\frac{1}{2}\right)$

2) $\sec^{-1}(1)$

3) $\csc^{-1}(\sqrt{2})$

4) $\cot^{-1}(0)$

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

6) $\cot^{-1}(1)$

7) $\cos^{-1}(0)$

8) $\csc^{-1}(2)$

9) $\tan^{-1}(1)$

Inverse Trigonometric Ratios

Name: _____

Date: _____

Find the value of each inverse trigonometric ratio in degrees.

1) $\cot^{-1}(\sqrt{3})$

_____ 30° _____

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

_____ 0° _____

3) $\sin^{-1}(0)$

_____ 0° _____

4) $\tan^{-1}(0)$

_____ 0° _____

5) $\sin^{-1}(\frac{\sqrt{2}}{2})$

_____ 45° _____

6) $\cos^{-1}(0)$

_____ 90° _____

7) $\tan^{-1}(\sqrt{3})$

_____ 60° _____

8) $\sec^{-1}(\frac{2\sqrt{3}}{3})$

_____ 30° _____

9) $\sec^{-1}(2)$

_____ 60° _____

Find the value of each inverse trigonometric ratio in radians.

1) $\cos^{-1}(\frac{1}{2})$

_____ $\frac{\pi}{3}$ _____

2) $\sec^{-1}(1)$

_____ 0 _____

3) $\csc^{-1}(\sqrt{2})$

_____ $\frac{\pi}{4}$ _____

4) $\cot^{-1}(0)$

_____ $\frac{\pi}{2}$ _____

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

_____ $\frac{\pi}{6}$ _____

6) $\cot^{-1}(1)$

_____ $\frac{\pi}{4}$ _____

7) $\cos^{-1}(0)$

_____ $\frac{\pi}{2}$ _____

8) $\csc^{-1}(2)$

_____ $\frac{\pi}{6}$ _____

9) $\tan^{-1}(1)$

_____ $\frac{\pi}{4}$ _____