

Name : \_\_\_\_\_

## Inverse Trigonometric Ratios

Using Charts: S3

A) Find the value of each inverse trigonometric ratio in degrees.

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

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

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

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

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

B) Find the e

c ratio in radians.

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

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

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

11)  $\cot^{-1}\left(\frac{\sqrt{3}}{3}\right)$

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

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**Inverse Trigonometric Ratios**

A) Find the value of each inverse trigonometric ratio in degrees.

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

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

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

60°0°30°

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

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

45°90°

B) Find the exact value of each inverse trigonometric ratio in radians.

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

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

 $\frac{\pi}{4}$  $\frac{\pi}{2}$ 

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

11)  $\cot^{-1}\left(\frac{\sqrt{3}}{3}\right)$

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

0 $\frac{\pi}{3}$  $\frac{\pi}{4}$ **PREVIEW**

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