

# Inverse Trigonometric Ratios

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

Date: \_\_\_\_\_

**Find the value of each inverse trigonometric ratio in radians and round the answer to three decimal places.**

1)  $\sin^{-1}(0.1775)$

\_\_\_\_\_

2)  $\cos^{-1}(-0.9645)$

\_\_\_\_\_

3)  $\tan^{-1}(0.8121)$

\_\_\_\_\_

4)  $\cos^{-1}(0.5479)$

\_\_\_\_\_

5)  $\sin^{-1}(-0.2377)$

\_\_\_\_\_

6)  $\tan^{-1}(-0.2071)$

\_\_\_\_\_

7)  $\tan^{-1}(0.4873)$

\_\_\_\_\_

8)  $\cos^{-1}(0.7880)$

\_\_\_\_\_

9)  $\sin^{-1}(0.9319)$

\_\_\_\_\_

**Find the value of each inverse trigonometric ratio in degrees and round the answer to three decimal places.**

1)  $\sin^{-1}(0.9319)$

\_\_\_\_\_

2)  $\cos^{-1}(-0.7226)$

\_\_\_\_\_

3)  $\tan^{-1}(0.3403)$

\_\_\_\_\_

4)  $\cos^{-1}(0.2107)$

\_\_\_\_\_

5)  $\sin^{-1}(-0.2409)$

\_\_\_\_\_

6)  $\tan^{-1}(0.9928)$

\_\_\_\_\_

7)  $\tan^{-1}(0.0775)$

\_\_\_\_\_

8)  $\sin^{-1}(-0.3213)$

\_\_\_\_\_

9)  $\cos^{-1}(0.5061)$

\_\_\_\_\_

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Date: \_\_\_\_\_

**Find the value of each inverse trigonometric ratio in radians and round the answer to three decimal places.**

1)  $\sin^{-1}(0.1775)$

0.178

2)  $\cos^{-1}(-0.9645)$

2.874

3)  $\tan^{-1}(0.8121)$

0.682

4)  $\cos^{-1}(0.5479)$

0.991

5)  $\sin^{-1}(-0.2377)$

-0.239

6)  $\tan^{-1}(-0.2071)$

-0.204

7)  $\tan^{-1}(0.4873)$

0.453

8)  $\cos^{-1}(0.7880)$

0.663

9)  $\sin^{-1}(0.9319)$

1.199

**Find the value of each inverse trigonometric ratio in degrees and round the answer to three decimal places.**

1)  $\sin^{-1}(0.9319)$

68.733

2)  $\cos^{-1}(-0.7226)$

136.269

3)  $\tan^{-1}(0.3403)$

18.793

4)  $\cos^{-1}(0.2107)$

77.837

5)  $\sin^{-1}(-0.2409)$

-13.939

6)  $\tan^{-1}(0.9928)$

44.793

7)  $\tan^{-1}(0.0775)$

4.431

8)  $\sin^{-1}(-0.3213)$

18.741

9)  $\cos^{-1}(0.5061)$

59.595