

# Inverse Trigonometric Ratios

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

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

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

1)  $\sin^{-1}(0.0570)$

\_\_\_\_\_

2)  $\cos^{-1}(0.9190)$

\_\_\_\_\_

3)  $\tan^{-1}(-0.3602)$

\_\_\_\_\_

4)  $\sin^{-1}(-0.7448)$

\_\_\_\_\_

5)  $\tan^{-1}(0.7954)$

\_\_\_\_\_

6)  $\cos^{-1}(-0.0533)$

\_\_\_\_\_

7)  $\tan^{-1}(-0.9190)$

\_\_\_\_\_

8)  $\cos^{-1}(0.0479)$

\_\_\_\_\_

9)  $\sin^{-1}(0.3868)$

\_\_\_\_\_

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

1)  $\sin^{-1}(0.6123)$

\_\_\_\_\_

2)  $\cos^{-1}(0.4201)$

\_\_\_\_\_

3)  $\tan^{-1}(-0.2582)$

\_\_\_\_\_

4)  $\cos^{-1}(0.6874)$

\_\_\_\_\_

5)  $\sin^{-1}(-0.0765)$

\_\_\_\_\_

6)  $\tan^{-1}(-0.4813)$

\_\_\_\_\_

7)  $\sin^{-1}(0.2977)$

\_\_\_\_\_

8)  $\cos^{-1}(0.1433)$

\_\_\_\_\_

9)  $\tan^{-1}(0.4178)$

\_\_\_\_\_

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

1)  $\sin^{-1}(0.0570)$

0.0570

2)  $\cos^{-1}(0.9190)$

0.405

3)  $\tan^{-1}(-0.3602)$

-0.346

4)  $\sin^{-1}(-0.7448)$

-0.840

5)  $\tan^{-1}(0.7954)$

0.672

6)  $\cos^{-1}(-0.0533)$

1.624

7)  $\tan^{-1}(-0.9190)$

-0.743

8)  $\cos^{-1}(0.0479)$

1.529

9)  $\sin^{-1}(0.3868)$

0.397

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

1)  $\sin^{-1}(0.6123)$

37.756

2)  $\cos^{-1}(0.4201)$

65.159

3)  $\tan^{-1}(-0.2582)$

-14.477

4)  $\cos^{-1}(0.6874)$

46.575

5)  $\sin^{-1}(-0.0765)$

-4.387

6)  $\tan^{-1}(-0.4813)$

-25.701

7)  $\sin^{-1}(0.2977)$

17.319

8)  $\cos^{-1}(0.1433)$

81.761

9)  $\tan^{-1}(0.4178)$

22.675