Inverse Trigonometric Ratios

Name:_____ Date:_____

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

1) $\cos^{-1}(0.9190)$ — 0.405

2) $\sin^{-1}(-0.7448)$ _____

3) $\tan^{-1}(0.7954)$ _____

4) $\tan^{-1}(-0.3602)$ _____

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

6) $\tan^{-1}(-0.9190)$ _____

7) $\cos^{-1}(-0.0533)$ _____

8) $\sin^{-1}(0.3868)$ _____

9) $\cos^{-1}(0.0479)$ _____

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

1) $\sin^{-1}(0.5432)$ — 32.902

2) $\cos^{-1}(0.6694)$ _____

3) $\tan^{-1}(-0.9562)$ _____

4) $\cos^{-1}(-0.4439)$ _____

5) $\tan^{-1}(-0.2833)$ _____

6) $\sin^{-1}(-0.3320)$ _____

7) $\tan^{-1}(-0.1631)$ _____

8) $\cos^{-1}(-0.0112)$ _____

9) $\sin^{-1}(0.5674)$ _____

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Name:_____ Date:_____

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

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

0.405

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

-0.840

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

0.672

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

-0.346

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

0.057

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

-0.743

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

1.624

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

0.397

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

1.522

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

1) $\sin^{-1}(0.5432)$

32.902

2) $\cos^{-1}(0.6694)$

47.979

3) $\tan^{-1}(-0.9562)$

-43.717

4) $\cos^{-1}(-0.4439)$

116.353

5) $\tan^{-1}(-0.2833)$

-15.817

6) $\sin^{-1}(-0.3320)$

-19.390

7) $\tan^{-1}(-0.1631)$

-9.263

8) $\cos^{-1}(-0.0112)$

90.641

9) $\sin^{-1}(0.5674)$

34.569