

Name : _____

Inverse Trigonometric Ratios

Using Calculator: S1

A) Find the value of each inverse trigonometric ratio in degrees. Round the answer to two decimal places.

1) $\csc^{-1}(-1.1018)$

2) $\sin^{-1}(-0.2124)$

3) $\tan^{-1}(0.6355)$

4) $\cot^{-1}(0.3566)$

5) $\cos^{-1}(0.4753)$

6) $\sec^{-1}(1.7289)$

B) Find the value of each inverse trigonometric ratio in radians. Round the answer to two decimal places.

7) $\cos^{-1}(-0.6285)$

8) $\cot^{-1}(0.4836)$

9) $\csc^{-1}(1.1254)$

10) $\sin^{-1}(0.5107)$

11) $\tan^{-1}(-0.7518)$

12) $\sec^{-1}(1.3723)$

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Answer key

Inverse Trigonometric Ratios

Using Calculator: S1

A) Find the value of each inverse trigonometric ratio in degrees. Round the answer to two decimal places.

1) $\csc^{-1}(-1.1018)$

-65.18°

2) $\sin^{-1}(-0.2124)$

-12.26°

3) $\tan^{-1}(0.6355)$

32.44°

4) $\cot^{-1}(0.3566)$

70.37°

5) $\cos^{-1}(0.4753)$

61.62°

6) $\sec^{-1}(1.7289)$

54.66°

B) Find the value of each inverse trigonometric ratio in radians. Round the answer to two decimal places.

7) $\cos^{-1}(-0.6285)$

2.25

8) $\cot^{-1}(0.4836)$

1.12

9) $\csc^{-1}(1.1254)$

1.09

10) $\sin^{-1}(0.5107)$

0.54

11) $\tan^{-1}(-0.7518)$

-0.64

12) $\sec^{-1}(1.3723)$

0.75