Name : _____

MATH MONKS

Inverse Trigonometric Ratios

Find the measure of each angle to the nearest degree.
One is done for you.

1. $\cos A = 0.5878$

   $A = \cos^{-1}(0.5878) = 54°$

2. $\sin A = 0.5150$

   $A =$ _____

3. $\tan C = 0.6355$

   $C =$ _____

4. $\sec Y = 1.7289$

   $Y =$ _____

5. $\cot D = 0.3566$

   $D =$ _____

6. $\tan P = 19.0811$

   $P =$ _____

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

7. $\sin^{-1}(0.5107)$

   _____

8. $\cos^{-1}(-0.6285)$

   _____

9. $\tan^{-1}(-0.7518)$

   _____

10. $\cos^{-1}(0.7431)$

    _____

11. $\tan^{-1}(0.5317)$

    _____

12. $\csc^{-1}(1.1254)$

    _____

Name : _____

MATH MONKS

Inverse Trigonometric Ratios

Answers

1. $\cos A = 0.5878$

   $A = \cos^{-1}(0.5878) = 54°$

2. $\sin A = 0.5150$

   $A = \sin^{-1}(0.5150) = 31°$

3. $\tan C = 0.6355$

   $C = \tan^{-1}(0.6355) = 32°$

4. $\sec Y = 1.7289$

   $Y = \sec^{-1}(1.7289) = 55°$

5. $\cot D = 0.3566$

   $D = \cot^{-1}(0.3566) = 70°$

6. $\tan P = 19.0811$

   $P = \tan^{-1}(19.0811) = 87°$

7. $\sin^{-1}(0.5107)$

   0.54

8. $\cos^{-1}(-0.6285)$

   2.25

9. $\tan^{-1}(-0.7518)$

   -0.64

10. $\cos^{-1}(0.7431)$

    0.73

11. $\tan^{-1}(0.5317)$

    0.48

12. $\csc^{-1}(1.1254)$

    1.09