



Trigonometry, Unit Circle Ratios (Tan, Sec, Csc, Cot) - Ratio To Ratio As Inverse (Radians)

1

$$\csc\left(\frac{7\pi}{4}\right)$$

What inverse ratio would give this trigonometry ratio?

A	B
$\csc\left(\frac{7\pi}{4}\right) = \frac{1}{\cos\left(\frac{7\pi}{4}\right)}$	$\csc\left(\frac{7\pi}{4}\right) = \frac{1}{\sin\left(\frac{7\pi}{4}\right)}$

2

$$\csc\left(\frac{3\pi}{4}\right)$$

What inverse ratio would give this trigonometry ratio?

A	B
$\csc\left(\frac{3\pi}{4}\right) = \frac{1}{\sin\left(\frac{3\pi}{4}\right)}$	$\csc\left(\frac{3\pi}{4}\right) = \frac{1}{\cos\left(\frac{3\pi}{4}\right)}$

3

$$\tan\left(\frac{4\pi}{3}\right)$$

What inverse ratio would give this trigonometry ratio?

A	B
$\tan\left(\frac{4\pi}{3}\right) = \frac{1}{\sec\left(\frac{4\pi}{3}\right)}$	$\tan\left(\frac{4\pi}{3}\right) = \frac{1}{\cot\left(\frac{4\pi}{3}\right)}$

4

$$\sin\left(\frac{5\pi}{3}\right)$$

What inverse ratio would give this trigonometry ratio?

A	B
$\sin\left(\frac{5\pi}{3}\right) = \frac{1}{\csc\left(\frac{5\pi}{3}\right)}$	$\sin\left(\frac{5\pi}{3}\right) = \frac{1}{\sec\left(\frac{5\pi}{3}\right)}$

5

$$\cot\left(\frac{5\pi}{4}\right)$$

What inverse ratio would give this trigonometry ratio?

A	B
$\cot\left(\frac{5\pi}{4}\right) = \frac{1}{\csc\left(\frac{5\pi}{4}\right)}$	$\cot\left(\frac{5\pi}{4}\right) = \frac{1}{\tan\left(\frac{5\pi}{4}\right)}$

6

$$\sin\left(\frac{7\pi}{6}\right)$$

What inverse ratio would give this trigonometry ratio?

A	B
$\sin\left(\frac{7\pi}{6}\right) = \frac{1}{\sec\left(\frac{7\pi}{6}\right)}$	$\sin\left(\frac{7\pi}{6}\right) = \frac{1}{\csc\left(\frac{7\pi}{6}\right)}$

7

$$\cos\left(\frac{5\pi}{4}\right)$$

What inverse ratio would give this trigonometry ratio?

A	B
$\cos\left(\frac{5\pi}{4}\right) = \frac{1}{\csc\left(\frac{5\pi}{4}\right)}$	$\cos\left(\frac{5\pi}{4}\right) = \frac{1}{\sec\left(\frac{5\pi}{4}\right)}$

8

$$\cos\left(\frac{2\pi}{3}\right)$$

What inverse ratio would give this trigonometry ratio?

A	B
$\cos\left(\frac{2\pi}{3}\right) = \frac{1}{\sec\left(\frac{2\pi}{3}\right)}$	$\cos\left(\frac{2\pi}{3}\right) = \frac{1}{\csc\left(\frac{2\pi}{3}\right)}$