

Important Periodicity or Cofunction Identities Formulas PDF



Formulas Examples with Units

List of 24 Important Periodicity or Cofunction Identities Formulas

1) Cos (2pi+A) Formula

Formula

$$\cos(2\pi+A) = \cos(A)$$

Example with Units

$$0.9397 = \cos(20^\circ)$$

Evaluate Formula 

2) Cos (2pi-A) Formula

Formula

$$\cos(2\pi-A) = \cos(A)$$

Example with Units

$$0.9397 = \cos(20^\circ)$$

Evaluate Formula 

3) Cos (3pi/2+A) Formula

Formula

$$\cos(3\pi/2+A) = \sin(A)$$

Example with Units

$$0.342 = \sin(20^\circ)$$

Evaluate Formula 

4) Cos (3pi/2-A) Formula

Formula

$$\cos(3\pi/2-A) = (-\sin(A))$$

Example with Units

$$-0.342 = (-\sin(20^\circ))$$

Evaluate Formula 

5) Cos (pi/2+A) Formula

Formula

$$\cos(\pi/2+A) = (-\sin(A))$$

Example with Units

$$-0.342 = (-\sin(20^\circ))$$

Evaluate Formula 

6) Cos (pi/2-A) Formula

Formula

$$\cos(\pi/2-A) = \sin(A)$$

Example with Units

$$0.342 = \sin(20^\circ)$$

Evaluate Formula 

7) Cos (pi+A) Formula

Formula

$$\cos(\pi+A) = (-\cos(A))$$

Example with Units

$$-0.9397 = (-\cos(20^\circ))$$

Evaluate Formula 



8) Cos (pi-A) Formula ↻

Formula

$$\cos(\pi-A) = (-\cos(A))$$

Example with Units

$$-0.9397 = (-\cos(20^\circ))$$

Evaluate Formula ↻

9) Sin (2pi+A) Formula ↻

Formula

$$\sin(2\pi+A) = \sin(A)$$

Example with Units

$$0.342 = \sin(20^\circ)$$

Evaluate Formula ↻

10) Sin (2pi-A) Formula ↻

Formula

$$\sin(2\pi-A) = (-\sin(A))$$

Example with Units

$$-0.342 = (-\sin(20^\circ))$$

Evaluate Formula ↻

11) Sin (3pi/2+A) Formula ↻

Formula

$$\sin(3\pi/2+A) = (-\cos(A))$$

Example with Units

$$-0.9397 = (-\cos(20^\circ))$$

Evaluate Formula ↻

12) Sin (3pi/2-A) Formula ↻

Formula

$$\sin(3\pi/2-A) = (-\cos(A))$$

Example with Units

$$-0.9397 = (-\cos(20^\circ))$$

Evaluate Formula ↻

13) Sin (pi/2+A) Formula ↻

Formula

$$\sin(\pi/2+A) = \cos(A)$$

Example with Units

$$0.9397 = \cos(20^\circ)$$

Evaluate Formula ↻

14) Sin (pi/2-A) Formula ↻

Formula

$$\sin(\pi/2-A) = \cos(A)$$

Example with Units

$$0.9397 = \cos(20^\circ)$$

Evaluate Formula ↻

15) Sin (pi+A) Formula ↻

Formula

$$\sin(\pi+A) = (-\sin(A))$$

Example with Units

$$-0.342 = (-\sin(20^\circ))$$

Evaluate Formula ↻

16) Sin (pi-A) Formula ↻

Formula

$$\sin(\pi-A) = \sin(A)$$

Example with Units

$$0.342 = \sin(20^\circ)$$

Evaluate Formula ↻



17) Tan (2pi+A) Formula ↻

Formula

$$\tan_{(2\pi+A)} = \tan (A)$$

Example with Units

$$0.364 = \tan (20^\circ)$$

Evaluate Formula ↻

18) Tan (2pi-A) Formula ↻

Formula

$$\tan_{(2\pi-A)} = (- \tan (A))$$

Example with Units

$$-0.364 = (- \tan (20^\circ))$$

Evaluate Formula ↻

19) Tan (3pi/2+A) Formula ↻

Formula

$$\tan_{(3\pi/2+A)} = (- \cot (A))$$

Example with Units

$$-2.7475 = (- \cot (20^\circ))$$

Evaluate Formula ↻

20) Tan (3pi/2-A) Formula ↻

Formula

$$\tan_{(3\pi/2-A)} = \cot (A)$$

Example with Units

$$2.7475 = \cot (20^\circ)$$

Evaluate Formula ↻

21) Tan (pi/2+A) Formula ↻

Formula

$$\tan_{(\pi/2+A)} = (- \cot (A))$$

Example with Units

$$-2.7475 = (- \cot (20^\circ))$$

Evaluate Formula ↻

22) Tan (pi/2-A) Formula ↻

Formula

$$\tan_{(\pi/2-A)} = \cot (A)$$

Example with Units

$$2.7475 = \cot (20^\circ)$$

Evaluate Formula ↻

23) Tan (pi+A) Formula ↻

Formula

$$\tan_{(\pi+A)} = \tan (A)$$

Example with Units

$$0.364 = \tan (20^\circ)$$

Evaluate Formula ↻

24) Tan (pi-A) Formula ↻

Formula

$$\tan_{(\pi-A)} = (- \tan (A))$$

Example with Units

$$-0.364 = (- \tan (20^\circ))$$

Evaluate Formula ↻



Variables used in list of Periodicity or Cofunction Identities Formulas above

- **A** Angle A of Trigonometry (Degree)
- $\cos(2\pi+A)$ Cos (2pi+A)
- $\cos(2\pi-A)$ Cos (2pi-A)
- $\cos(3\pi/2+A)$ Cos (3pi/2+A)
- $\cos(3\pi/2-A)$ Cos (3pi/2-A)
- $\cos(\pi/2+A)$ Cos (pi/2+A)
- $\cos(\pi/2-A)$ Cos (pi/2-A)
- $\cos(\pi+A)$ Cos (pi+A)
- $\cos(\pi-A)$ Cos (pi-A)
- $\sin(2\pi+A)$ Sin (2pi+A)
- $\sin(2\pi-A)$ Sin (2pi-A)
- $\sin(3\pi/2+A)$ Sin (3pi/2+A)
- $\sin(3\pi/2-A)$ Sin (3pi/2-A)
- $\sin(\pi/2+A)$ Sin (pi/2+A)
- $\sin(\pi/2-A)$ Sin (pi/2-A)
- $\sin(\pi+A)$ Sin (pi+A)
- $\sin(\pi-A)$ Sin (pi-A)
- $\tan(2\pi+A)$ Tan (2pi+A)
- $\tan(2\pi-A)$ Tan (2pi-A)
- $\tan(3\pi/2+A)$ Tan (3pi/2+A)
- $\tan(3\pi/2-A)$ Tan (3pi/2-A)
- $\tan(\pi/2+A)$ Tan (pi/2+A)
- $\tan(\pi/2-A)$ Tan (pi/2-A)
- $\tan(\pi+A)$ Tan (pi+A)
- $\tan(\pi-A)$ Tan (pi-A)

Constants, Functions, Measurements used in list of Periodicity or Cofunction Identities Formulas above

- **Functions:** $\cos$, $\cos(\text{Angle})$
Cosine of an angle is the ratio of the side adjacent to the angle to the hypotenuse of the triangle.
- **Functions:** $\cot$, $\cot(\text{Angle})$
Cotangent is a trigonometric function that is defined as the ratio of the adjacent side to the opposite side in a right triangle.
- **Functions:** $\sin$, $\sin(\text{Angle})$
Sine is a trigonometric function that describes the ratio of the length of the opposite side of a right triangle to the length of the hypotenuse.
- **Functions:** $\tan$, $\tan(\text{Angle})$
The tangent of an angle is a trigonometric ratio of the length of the side opposite an angle to the length of the side adjacent to an angle in a right triangle.
- **Measurement:** **Angle** in Degree (°)
Angle Unit Conversion 



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